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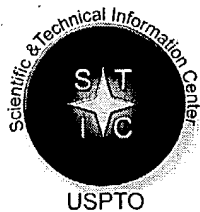
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# STIC Search Report

## EIC 2600

STIC Database Tracking Number: 136792

TO: Ashutosh Upreti  
Location: ~~EPK2-3C16~~ CPK1 4E06  
Art Unit: 2623  
Tuesday, November 02, 2004

Case Serial Number: 09955146

From: Pamela Reynolds  
Location: EIC 2600  
PK2-3C03  
Phone: 306-0255

Pamela.Reynolds@uspto.gov

### Search Notes

Dear **Ashutosh Upreti**

Please find attached the REFOCUSED search results for **09955146**. I used the search strategy we discussed. I searched the standard Dialog files.

If you would like anything else please let me know.

Thank you.



Refers 3

Access DB# B6792

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: ASHUTOSH UPRETI Examiner #: 80588 Date: 11/1/04  
Art Unit: 2623 Phone Number 3064087 Serial Number: 09/955146  
Mail Box and Bldg/Room Location: 4E06 Results Format Preferred (circle): (PAPER) DISK E-MAIL  
CRYSTAL PARK 1

If more than one search is submitted, please prioritize searches in order of need.  
\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: IMAGE TRANSMISSION SYSTEM, METHOD OF THE SAME, AND RECORDING MEDIUM

Inventors (please provide full names): HIROSHI TERASAKI

Earliest Priority Filing Date: 09/25/2000

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search US Patents + NPL for

~~Output of high resolution data when a digital watermark is detected but output of low resolution data when a digital watermark is not detected.  
(The watermark is preferable in image data, though a watermark in multimedia data will also be fine.)~~

detecting and  
viewing a watermarked image  
in high resolution. See attached

JUST AVAILABLE COPY

\*\*\*\*\*

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Samuel Reynolds</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>3064255</u>	AA Sequence (#) _____	Dialog <u>1</u>
Searcher Location: <u>1223003</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>11-2-04</u>	Bibliographic <u>✓</u>	Dr.Link _____
Date Completed: <u>11-2-04 11:30</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>30</u>	Fulltext <u>✓</u>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <u>✓</u>
Online Time: <u>100</u>	Other _____	Other (specify) _____

File 344:Chinese Patents Abs Aug 1985-2004/May  
(c) 2004 European Patent Office  
File 347:JAPIO Nov 1976-2004/Jun(Updated 041004)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200470  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	4780	WATERMARK? OR WATER()MARK?
S2	10185	(DIGIT? OR ELECTRONIC?) (3N) (MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER? OR MA- SK?)
S3	211	STEGANOGRAPH?
S4	57055	(HIGH? OR MORE) (3N) RESOLUTION?
S5	1760811	IMAGE? OR GRAPHIC? OR PICTURE? OR PHOTO OR PHOTOGRAPH?
S6	6300	(DETECT? OR LOCAT? OR DETERMIN? OR SPECIF? OR RECOGN?) AND (S1 OR S2 OR S3)
S7	780	(PUCHASE? OR BUY?) AND S5
S8	4	S6 AND S7
S9	54	S6 AND S4
S10	19	S9 AND (DISPLAY? OR VIEW? OR SEE OR SHOW?)
S11	4	S10 NOT PY=>2001
S12	4	S11 NOT S8
S13	1030	(DETECT? OR LOCAT? OR DETERMIN? OR SPECIF? OR RECOGN?) (3N)- (S1 OR S3)
S14	3	S13 AND (DISPLAY? OR VIEW? OR SEE OR SHOW?) AND S5 AND S4
S15	3	S14 NOT (S11 OR S8)
S16	0	S15 NOT PY=>2001
S17	17	S4 AND S5 AND (S1 OR S3)
S18	14	S17 NOT (S14 OR S11 OR S8)
S19	6	S18 NOT AD=20000925:20041101/PR

8/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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016197648 \*\*Image available\*\*  
WPI Acc No: 2004-355534/200433  
XRPX Acc No: N04-284166

**Display pattern information storage and changing method involves  
comparing image reference data of objects photographed by digital  
camera with prestored pattern information of object, and displaying  
comparison result**

Patent Assignee: DOWN-LOGAN K (DOWN-I); LOGAN M S (LOGA-I)

Inventor: DOWN-LOGAN K; LOGAN M S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040078299	A1	20040422	US 2002352526	P	20020131	200433 B
			US 2002352543	P	20020131	
			US 2003354862	A	20030130	

Priority Applications (No Type Date): US 2003354862 A 20030130; US  
2002352526 P 20020131; US 2002352543 P 20020131

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040078299	A1	25	G06F-017/60	Provisional application	US 2002352526

Provisional application US 2002352543

**Display pattern information storage and changing method involves  
comparing image reference data of objects photographed by digital  
camera with prestored pattern information of object, and displaying  
comparison result**

Abstract (Basic):

... A personal digital assistant (PDA) (30) compares **image**  
reference data of objects **photographed** by digital camera (12) with  
prestored pattern information of object and displays the result.

... For **determining** color patterns for objects used by  
manufacturers of carpets, wall papers, paints, furniture, apparel or  
durable goods, professionals like architects, interior designers or  
**buyers** and consumers using personal digital assistant (PDA...

...of products. Enables the vender to easily communicate the  
characteristics of product with consumer, to **determine** that correct  
products are delivered and easily replaced damaged product...

...Title Terms: **IMAGE** ;

8/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014852793  
WPI Acc No: 2002-673499/200272  
XRAM Acc No: C02-189733  
XRPX Acc No: N02-532446

**Computer-implemented process for providing computer-aided procurement of  
industrial/commercial equipment, involves conducting replacement  
operation using software application components for conducting  
e-procurement operations**

Patent Assignee: ABB AB (ALLM ); ANDERSSON J (ANDE-I); PAULY T (PAUL-I);  
RUDIN M (RUDI-I)

Inventor: ANDERSSON J; PAULY T; RUDIN M

Number of Countries: 098 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020087419	A1	20020704	US 2000751268	A	20001229	200272 B
WO 200254313	A1	20020711	WO 2001SE2844	A	20011219	200272
EP 1356404	A1	20031029	EP 2001272986	A	20011219	200379
			WO 2001SE2844	A	20011219	
AU 2002217664	A1	20020716	AU 2002217664	A	20011219	200427

Priority Applications (No Type Date): US 2000751268 A 20001229

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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US 20020087419	A1	15	G06F-017/60	
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WO 200254313	A1 E		G06F-017/60	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

EP 1356404	A1 E		G06F-017/60	Based on patent WO 200254313
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI TR

AU 2002217664	A1		G06F-017/60	Based on patent WO 200254313
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Abstract (Basic):

... application component for conducting e-procurement operations  
where replacement device(s) complying with a defined **specification**  
may be procured from external suppliers. The first software application  
component is linked with a...

...system for ordering equipment for an industrial plant comprising device  
for transmitting information including a **specification** for the  
equipment and a device for communication with suppliers over a network,  
and a...

...by a prospective customer to evaluate a price for devices in order to  
make a **buying** decision...

...in a process control system for an industrial plant, comprising  
information derived from a maintenance **specification** representing the  
equipment in a software application for conducting runtime maintenance  
of the equipment in...

...computer or processor carries out actions to: (i) receive information  
from a database detailing equipment **specification**; (ii) receive input  
identifying a parameter relating to delivery times; and (iii) conduct  
e-procurement operations to obtain a quote for a given **specification**  
and delivery time...

Technology Focus:

... report; a control software function for controlling operational  
conditions relating to the equipment; and a **graphical** software  
function for producing a **graphical** runtime representation of the  
equipment in its operational context of the plant, where the management  
...

...by a user, of a menu via the runtime representation of the equipment;

retrieving a **specification** stored, or generated on the basis of stored data, for the equipment; and procuring the replacement apparatus according to at least part of the **specification** . The user is provided with an option to alter the **specification** after the **specification** is retrieved. The presentation is selected from a **graphical** representation on a screen of a computer connected by a local area network (LAN) to...

- ...also includes examining prices and conditions retrieved in the e-procurement operations, forming a negative **buying** decision, changing a part of the replacement apparatus **specification** to intake a modified e-procurement process, examining new prices and conditions retrieved in the...
- ...an identified preferred supplier. It also includes performing iterations of the cost evaluation of the **specification** in which **specification** factors or parameters are changed, and judging each evaluation result in accordance with a predefined algorithm, to finalize an e-procurement process. The system includes a device for communicating the **specification** for the replacement apparatus to manufacturers or suppliers of the replacement apparatus or its parts...
- ...match a registered or identified logged-in prospective customer to a history of details of **specification** selection, and subsequent changes to **specification** stored in a database of the system. The software component comprises a **digital identifier** device such as a cookie stored in a computer used by the prospective customer. The...
- ...code component or software code portions comprise software device enabling a user to communicate a **buying** decision, based on prices and conditions resulting from the e-procurement operations for a selected **specification** , using a single action by the user. Preferred Method: The computer data signal is generated...

8/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014701079 \*\*Image available\*\*

WPI Acc No: 2002-521783/200256

XRPX Acc No: N02-412915

**Internet based watermarking / watermarked material transfer in client-server system, involves transferring watermark removal data including security key from server to specific apparatus, on satisfying specified conditions**

Patent Assignee: SONY UK LTD (SONY ); DELACOUR I (DELA-I); FOSTER R (FOST-I); GUGENHEIM P (GUGE-I); PELLY J C (PELL-I); STONE J J (STON-I)

Inventor: DELACOUR I; FOSTER R; GUGENHEIM P; PELLY J C; STONE J J

Number of Countries: 029 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1215907	A2	20020619	EP 2001310112	A	20011203	200256 B
US 20020080964	A1	20020627	US 20016481	A	20011206	200256
CN 1363895	A	20020814	CN 2001145675	A	20011206	200280
JP 2002305735	A	20021018	JP 2001375047	A	20011207	200301

Priority Applications (No Type Date): GB 200121202 A 20010831; GB 200029851 A 20001207

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1215907 A2 E 29 H04N-007/24  
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI TR  
US 20020080964 A1 H04K-001/00  
CN 1363895 A G06F-015/163  
JP 2002305735 A 67 H04N-007/16

**Internet based watermarking / watermarked material transfer in client-server system, involves transferring watermark removal data including security key from server to specific apparatus, on satisfying specified conditions**

Abstract (Basic):

... The material identifiers are transferred from seller and **buyer** clients (2,3) to a transaction server (1). Data for generating a **watermark** and material identifier are transferred from the server to a **specific** apparatus. The **watermarked** material is transferred from the **specific** apparatus to another apparatus. The **watermark** removal data including one security key for removing the **watermark** are transferred from the server to another apparatus when predetermined conditions are satisfied.

... 1) Recorded medium storing **watermarking / watermarked** material transfer program...

...5) **Watermarking / watermark** removal system...

...7) **Watermark** removing apparatus...

...8) **Watermark** removal system; and...

...9) Computer program product for **watermarking** and transferring **watermarked** material in client-server system...

...For **watermarking** and transferring **watermarked** material such as audio material and video material including still and moving **images** through Internet in client-server system (claimed) employed in banking management and credit card management...

...The security key included in the **watermark** removal data provides security against the unauthorized removal of the **watermark**. Allows owners of material to offer it to **buyers** for sales in a secure manner. Allows the sellers to design and apply secured **watermark** without a need to know how the **watermarking** is achieved. Allows the **buyers** to remove **watermarks** once they have complied with predetermined conditions, without requiring special skills to remove them...

...Seller and **buyer** clients (2,3...

...Title Terms: **WATERMARK** ;

8/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014134235 \*\*Image available\*\*

WPI Acc No: 2001-618446/200172

XRPX Acc No: N01-461320

**Film clip selling method where a web interface is used to search databases of clips stored in MPEG2 (Moving Pictures Expert Group) and**

MPEG4 formats and an electronic watermark is encoded into the clip to track it and calculate costs.

Patent Assignee: HITACHI LTD (HITA )

Inventor: KODAMA K; KONDO K; MATSUZAWA S

Number of Countries: 027 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 1139244	A2	20011004	EP 2000118677	A	20000829	200172	B
CA 2317141	A1	20010930	CA 2317141	A	20000830	200172	
JP 2001283109	A	20011012	JP 2000101212	A	20000331	200176	

Priority Applications (No Type Date): JP 2000101212 A 20000331

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1139244 A2 E 21 G06F-017/60

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

CA 2317141 A1 E G06F-017/60

JP 2001283109 A 20 G06F-017/60

... where a web interface is used to search databases of clips stored in MPEG2 (Moving Pictures Expert Group) and MPEG4 formats and an electronic watermark is encoded into the clip to track it and calculate costs.

Abstract (Basic):

... two databases. One database is for films stored in MPEG2 format, one for MPEG4. The **buyer** can watch and listen to the clip online before purchasing. The purchased film is encoded with an electronic **watermark** which is used to track the films. The **watermark detection** system calculates the charge to the **buyer**.

... 2) A computer readable storage medium which stores a program for selling **pictures**.

Technology Focus:

... Stores films in MPEG2 (Moving **Pictures** Experts Group) and MPEG4 formats which are video compression standards.

...Title Terms: **PICTURE** ;

?

12/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05711550 \*\*Image available\*\*  
MANUFACTURE OF PROJECTION ALIGNER AND DEVICE USING IT

PUB. NO.: 09-326350 [JP 9326350 A]  
PUBLISHED: December 16, 1997 (19971216)  
INVENTOR(s): ISHII HIROYUKI  
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 08-162373 [JP 96162373]  
FILED: June 03, 1996 (19960603)

#### ABSTRACT

PROBLEM TO BE SOLVED: To **see** that the change of the optical performance based on the absorption of the exposure beam...

... the tolerable value, by changing the interval between the times of projecting and exposing an **electronic** circuit **pattern** repeatedly on a wafer...

...SOLUTION: After a reticle 2 and a wafer 3 are positioned to be in **specified** relation, the **electronic** circuit **pattern** on the face of a reticle 2 is projected and exposed at **specified** intervals on the face of a wafer 3 by opening and closing a shutter means...

... pause time separately for each shot of the exposure at this time. That is, a **high** **resolution** of the projective pattern image can be obtained easily.

12/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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01134742 \*\*Image available\*\*  
PROCESSING METHOD FOR LIPPMANN TYPE PHOTSENSITIVE SILVER HALIDE MATERIAL

PUB. NO.: 58-072142 [JP 58072142 A]  
PUBLISHED: April 30, 1983 (19830430)  
INVENTOR(s): NISHIDE RIICHI  
APPLICANT(s): KONISHIROKU PHOTO IND CO LTD [000127] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 56-170361 [JP 81170361]  
FILED: October 23, 1981 (19811023)  
JOURNAL: Section: P, Section No. 211, Vol. 07, No. 164, Pg. 114, July 19, 1983 (19830719)

#### ABSTRACT

... and accuracy for manufacturing a minute integrated circuit by adding an organic compound having a **specified** value or above of solubility product with Ag(sup +) to a cleaning bath containing SO(sup -23) at a **specified** concentration in the reversal of a Lippmann type photosensitive silver halide material...

... halide particles having  $\leq 100\text{nm}$  average particle size,  $\geq 1$  kind of organic compound (formula 1-4) **showing**  $\geq 11.8$  solubility product with Ag(sup +) at 25c is added to a cleaning bath...

... a bleaching bath. By making use of the resulting processing bath, a stable image with **high resolution** and sharpness for manufacturing a **mask** used in the **electronic** industry is obtained

**12/3,K/3 (Item 1 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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012813605 \*\*Image available\*\*

WPI Acc No: 1999-619836/199953

XRPX Acc No: N99-457125

**Mask for high resolution optic position sensor**

Patent Assignee: ALLIED-SIGNAL INC (ALLC )

Inventor: GILBERT T B; GREVE J E; GUSTUS J S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5978418	A	19991102	US 96683925	A	19960719	199953 B

Priority Applications (No Type Date): US 96683925 A 19960719

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5978418	A	4	G01B-011/02	

**Mask for high resolution optic position sensor**

Abstract (Basic):

... An INDEPENDENT CLAIM is also included for a method of encoding a signal for **high resolution detection** .

...

...Offers optical position sensor with **high resolution** capability using mask pattern. The analog data bit in the mask provides continuous representation of a position when a sensor moves the **mask** from one **digital** data to other for e.g. 00h to 08h...

...The figure **shows** optic position sensor mask pattern

**12/3,K/4 (Item 2 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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008197219 \*\*Image available\*\*

WPI Acc No: 1990-084220/199012

XRPX Acc No: N90-064956

**Three-dimensional optical measuring probe for tooth geometry - uses point light source matrix controlled by stored light projection pattern**

Patent Assignee: KALTENBACH & VOIGT GMBH (KALT ); KALTENBACH & VOIGT GMBH & CO (KALT )

Inventor: GAESSLER J; MASSEN R

Number of Countries: 008 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3829925	A	19900315	DE 3829925	A	19880902	199012 B
FR 2635965	A	19900309				199017
SE 8902748	A	19900303				199017
JP 2119858	A	19900507	JP 89227298	A	19890901	199024

CH 680187	A	19920715	CH 893170	A	19890901	199234
SE 468971	B	19930426	SE 892748	A	19890816	199319
DE 3829925	C2	19940303	DE 3829925	A	19880902	199408
US 5372502	A	19941213	US 89397113	A	19890822	199504
			US 91788832	A	19911107	

Priority Applications (No Type Date): DE 3829925 A 19880902

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3829925	A		6		
CH 680187	A	G		A61C-019/04	
DE 3829925	C2		6	A61C-019/04	
US 5372502	A			A61C-005/00	CIP of application US 89397113
SE 468971	B			A61C-019/04	

...Abstract (Basic): The measuring probe uses a **high resolution** , freely-programmable point light source matrix (7,8) coupled to an image store (5) which holds a **digitalised** projection **pattern** via a video interface (9). The point light source matrix is controlled by the stored projection pattern and projected onto the tooth surface via an optical imaging system (6), with **detection** of the reflected light via a CCD sensor (3...

...Abstract (Equivalent): pattern projected onto the teeth is acquired and the corresp. image signal is evaluated to **determine** the topography of the teeth. The image projector contains a variable image memory with beam...

...Abstract (Equivalent): A highly-resoluting two-dimensional point-by-point freely-programmable projection unit generates a **digitised** projection **pattern** from a computer in accordance with a programmed mathematical or graphical method. The pattern is stored in an image memory and is then brought into **display** through addressing of a black-and-white or colour LCD matrix plate. With the aid...

...upon a comparison between the distorted image and the digital pixel image. A video monitor **displays** the topographic representation of the teeth in the oral cavity of a patient. (ATF in...

?

15/3,K/1 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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07232840 \*\*Image available\*\*

SYSTEM AND METHOD FOR TRANSMITTING **IMAGE** AND RECORDING MEDIUM

PUB. NO.: 2002-101288 [JP 2002101288 A]

PUBLISHED: April 05, 2002 (20020405)

INVENTOR(s): TERASAKI HIROSHI

APPLICANT(s): NEC CORP

APPL. NO.: 2000-289765 [JP 2000289765]

FILED: September 25, 2000 (20000925)

SYSTEM AND METHOD FOR TRANSMITTING **IMAGE** AND RECORDING MEDIUM

#### ABSTRACT

PROBLEM TO BE SOLVED: To **display** and manage an **image** using a general purpose **image display** application while preventing illegal copy by a user who purchased it.

SOLUTION: A web server 2 comprises a section 21 for inserting a digital **watermark** for **specifying high resolution** data 23b into low resolution data 23a, and a section 22 for transmitting the low **resolution** data 23a, the **high resolution** data 23b and a data selection program 23c when a client 3 connected through a network 1 requests transmission of a file of **image** data. The data selection program 23c instructs the client 3 to **detect** the digital **watermark** of the low resolution data 23a designated to be **displayed** or printed by an application program 33 and to designate the **high resolution** data 23b **specified** from **watermark** information as a file being **displayed** or printed if the digital **watermark** is **detected** otherwise to designate the low resolution data 23a as a file being **displayed** or printed.

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15/3,K/2 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015451956 \*\*Image available\*\*

WPI Acc No: 2003-514098/200348

XRPX Acc No: N03-408034

**Enhanced peak detection method for correlation signal in data analysis scheme, by identifying position with modulus value exceeding first predetermined value, and performing processing for each identified position**

Patent Assignee: CANON KK (CANO )

Inventor: FLETCHER P A; LARKIN K G

Number of Countries: 029 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200352676	A1	20030626	WO 2002AU1714	A	20021218	200348 B
AU 2002347217	A1	20030630	AU 2002347217	A	20021218	200420

Priority Applications (No Type Date): AU 20019634 A 20011219

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200352676 A1 E 38 G06K-009/64

Designated States (National): AU CN JP KR US  
Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR  
IE IT LU MC NL PT SE SI SK TR  
AU 2002347217 A1 G06K-009/64 Based on patent WO 200352676

Abstract (Basic):

... The sub-signal is up-sampled to a **higher resolution**, using Fourier interpolation. The up-sampled signals are then searched for a peak value, and...

...correlation signal, for a computer program for enhanced peak detection, and for a method of **detecting a watermark**.

...

...signals, such as when positions of peaks indicate where an object was present. Especially for **image** watermarking or audio watermarking...

...The figure **shows** a flow diagram illustrating the method

15/3,K/3 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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014561182 \*\*Image available\*\*  
WPI Acc No: 2002-381885/200241  
XRPX Acc No: N02-298870

Image **transmission system includes data selection program that designates high - resolution data as output file when watermark is detected**

Patent Assignee: NEC CORP (NIDE ); TERASAKI H (TERA-I)

Inventor: TERASAKI H

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020037091	A1	20020328	US 2001955146	A	20010919	200241 B
JP 2002101288	A	20020405	JP 2000289765	A	20000925	200241

Priority Applications (No Type Date): JP 2000289765 A 20000925

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020037091	A1		23	G06K-009/00	
JP 2002101288	A		17	H04N-001/387	

Image **transmission system includes data selection program that designates high - resolution data as output file when watermark is detected**

Abstract (Basic):

... insert an electronic watermark to a low-resolution data (23a) and copyright information to a **high - resolution** data (23b). A data selection program (23c) received at a client (3), designates the data (23b) from the watermark information as an output file, when the **watermark is detected**, otherwise designates the data (23a) as the output file.

... a) **Image** transmission method...

...b) Recorded medium storing **image** transmission program...

...For transmission of static **image**, music, moving **images**, over

Internet, for **image display** applications...

...Prevents illegal copying of contents, by transmitting **high - resolution** data as **image** data file...

...The figure **shows** a block diagram of the **image** transmission system...

... **High - resolution** data (23b

Technology Focus:

... The **image** formats of the low- **resolution** data and **high - resolution** data conform to general purpose **image** format such as JPEG format. The **high - resolution** data is encoded using content protection method as proposed by IEEE1394.

Title Terms: **IMAGE ;**

?

19/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

07226328 \*\*Image available\*\*  
ELECTRONIC **WATERMARK** UNIT

PUB. NO.: 2002-094769 [JP 2002094769 A]  
PUBLISHED: March 29, 2002 (20020329)  
INVENTOR(s): MAENO KURATO  
APPLICANT(s): OKI ELECTRIC IND CO LTD  
APPL. NO.: 2000-278141 [JP 2000278141]  
FILED: September 13, 2000 (20000913)

ELECTRONIC **WATERMARK** UNIT

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide an electronic **watermark** unit that acquires only a part of **image** data to detect falsification, even with a low-resolution **image** .

SOLUTION: The electronic **watermark** unit is provided with a Wavelet transform means 101 that applies Wavelet transformation to an input **image** , an electronic **watermark** imbedding means 102, that imbeds an electronic **watermark** to a low-frequency component (low-resolution component) of a coefficient subjected to Wavelet transformation, an electronic **watermark** imbedding means 103 that imbeds an electronic **watermark** to an intermediate frequency component (intermediate resolution component) of the coefficient subjected to Wavelet transformation, an electronic **watermark** imbedding means 104, that imbeds an electronic **watermark** to a high frequency component ( **high - resolution** component) of the coefficient subjected to the Wavelet transformation, and an encoding means 105 that encodes the Wavelet coefficient to which the electronic **watermark** is imbedded to generate encoded data.

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19/3,K/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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016339007 \*\*Image available\*\*  
WPI Acc No: 2004-496904/200447  
XRPX Acc No: N04-392195

**Object tagging method in gamma watermarking , involves metering radio isotopes to be affixed onto object/tag, from solution used by inkjet printing mechanism operating under algorithmic control**

Patent Assignee: UNIV CALIFORNIA (REGC )  
Inventor: ISHIKAWA M Y; LOUGHEED R W; MOODY K J; WANG T; WOOD L L  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6740875	B1	20040525	US 99119755	P	19990211	200447 B
			US 2000502859	A	20000211	

Priority Applications (No Type Date): US 99119755 P 19990211; US 2000502859 A 20000211

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

**Object tagging method in gamma watermarking , involves metering radio isotopes to be affixed onto object/tag, from solution used by inkjet...**

Abstract (Basic):

... radioisotopes affixed to the object or tag, so that the digital signature is recorded using **high energy resolution** gamma-ray detector. The radioisotopes are metered out from the solution provided in a reservoir...

... An INDEPENDENT CLAIM is also included for gamma- **watermark** .

...

...portable dentist drill, art work, documents, human artifacts, paleontological specimens used in laboratory by gamma- **watermarking** .

...

...The figure shows a graph respecting the spectral **image** of gamma- **watermark** .

...Title Terms: **WATERMARK** ;

**19/3,K/3 (Item 2 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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014632154 \*\*Image available\*\*

WPI Acc No: 2002-452858/200248

XRAM Acc No: C02-128747

XRPX Acc No: N02-357007

**Cellulosic substrate, useful as watermarked security document, comprises a transparentizing composition applied in a pattern to define a graphical image providing an area of increased transparency**

Patent Assignee: STANDARD REGISTER CO (STRR )

Inventor: GULLETT W L; LAKES A D; MEHTA R; WASHBURN D E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6358596	B1	20020319	US 99300118	A	19990427	200248 B

Priority Applications (No Type Date): US 99300118 A 19990427

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6358596	B1	28	B32B-003/00		

**Cellulosic substrate, useful as watermarked security document, comprises a transparentizing composition applied in a pattern to define a graphical image providing an area of increased transparency**

Abstract (Basic):

... within it. The portion comprises a transparentizing composition applied in a pattern to define a **graphical image** providing an area of increased transparency. The area resembles a **graphical watermark** and defines a degree of transparency that excludes the degree of transparency defined by a...

... The cellulosic substrate is used in **watermarked** security documents...

...Document security is enhanced by applying **images** that simulate **high**

**resolution graphical watermarks** at a relatively lower cost than conventional **watermarks** . Improved economies are realized by (i) enabling the production of documents on bond paper stock as opposed to premium paper stock and (ii) enabling economical customization of **watermark type security images** . The documents may include a glossy or plasticized **image** . The **image** may be enhanced in a variety of ways or produced with a tactile feel...

Technology Focus:

... The security agent may comprise a **photochromic** ,  
...

...Preferred Substrate: The cellulosic substrate defines a textured portion. The **graphical image** is further defined by the textured portion. The textured and transparentized portions lie in common

Extension Abstract:

... hexanedioldiacrylate (30.72), trimethylolpropane triacrylate (34.48), monohydroxy pentacrylate (4.82), urethane acrylate (10.34), **photocatalyst** (12.40). The liquid was applied to a substrate by flexographic printing and cured by...

...Title Terms: **WATERMARK** ;

19/3,K/4 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012214766 \*\*Image available\*\*

WPI Acc No: 1999-020872/199902

XRPX Acc No: N99-017172

**Moving image encoding method - involves incorporating operational information of camera, using which moving image to be encoded is obtained, into moving image itself, as digital watermark , based on which encoding is performed**

Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10290456	A	19981027	JP 9796135	A	19970414	199902 B

Priority Applications (No Type Date): JP 9796135 A 19970414

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10290456	A	7	H04N-007/24	

**Moving image encoding method...**

...involves incorporating operational information of camera, using which moving image to be encoded is obtained, into moving image itself, as digital watermark , based on which encoding is performed

...Abstract (Basic): The method involves incorporating operational information of camera using which the **image** is obtained, into the moving **image** information as a digital **watermark** . Then, the moving **image** is encoded using the operating information as an encoding parameter...

...ADVANTAGE - Mitigates **image** information processing load. Obtains **high resolution image** during **photography** .

...Title Terms: **IMAGE** ;

19/3,K/5 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010676478 \*\*Image available\*\*  
WPI Acc No: 1996-173432/199618  
XRPX Acc No: N96-145683

**Reduction of quantisation artifacts in hierarchical image system -  
reducing quantisation artifacts in addition and removal of digital  
watermark to and from selected resolution image of hierarchical image  
storage system where watermark removal record is placed in higher  
resolution image component**

Patent Assignee: EASTMAN KODAK CO (EAST )  
Inventor: RABBANI M  
Number of Countries: 005 Number of Patents: 006  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 705025	A2	19960403	EP 95420266	A	19950925	199618 B
JP 8211857	A	19960820	JP 95252906	A	19950929	199643
US 5568570	A	19961022	US 94315781	A	19940930	199648
EP 705025	A3	19961204	EP 95420266	A	19950925	199707
EP 705025	B1	20000329	EP 95420266	A	19950925	200020
DE 69515952	E	20000504	DE 615952	A	19950925	200029
			EP 95420266	A	19950925	

Priority Applications (No Type Date): US 94315781 A 19940930

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 705025	A2	E	23	H04N-001/40	
				Designated States (Regional):	DE FR GB
EP 705025	B1	E		H04N-001/60	
				Designated States (Regional):	DE FR GB
DE 69515952	E			H04N-001/60	Based on patent EP 705025
JP 8211857	A		16	G09G-005/00	
US 5568570	A		24	G06K-009/00	
EP 705025	A3			H04N-001/40	

**Reduction of quantisation artifacts in hierarchical image system...**

**...reducing quantisation artifacts in addition and removal of digital  
watermark to and from selected resolution image of hierarchical image  
storage system where watermark removal record is placed in higher  
resolution image component**

...Abstract (Basic): The method involves determining the difference values  
between the pixel values in the low resolution **image** and the corresp.  
pixel values in the **higher resolution image**. Each difference  
value is compared against quantised conversion values to determine if  
an error would...

...The **image** pixel values within the low resolution **image** component are  
adjusted if an error exists. They are adjusted (36) to a value that  
eliminates the error to form an adjusted low resolution **image**. The  
unadjusted **image** pixel values are used as part of the low resolution  
**image** component if an error does not exist...

...USE/ADVANTAGE - Reducing artifacts in hierarchical **image** storage and  
retrieval system employing quantisation of residual **image** components.  
Improves quality of **high resolution image** component by modifying

lower resolution **image** component whose **image** quality is less critical...

...Abstract (Equivalent): A method for reducing quantization artifacts in a hierarchical **image** system of the type that decomposes a **high resolution image** into low resolution **image** components, including low resolution **image** pixel values, and residual **image** pixel values comprising the steps of...

...a) forming a predicted **higher resolution image** by interpolating the pixel values of the low resolution **image** components...

...b) determining the difference values between the pixel values in the low resolution **image** and the corresponding pixel values in the **higher resolution image** ;

...

...d) adjusting the **image** pixel values within the low resolution **image** component if an error would exist, to a value that eliminates the error to form an adjusted low resolution **image** ;

...

...e) using the unadjusted **image** pixel value as part of the adjusted low resolution **image** component if an error does not exist; and...

...f) forming a predicted **higher resolution image** by interpolating the pixel values of the adjusted low resolution **image** components of steps d) and e...

...g) determining the difference values between the interpolated pixel values in the predicted **higher resolution image** and the corresponding pixel values in the **higher resolution image** ;

...

...i) adjusting further the **image** pixel values within the adjusted low resolution **image** component if an error would exist, to a value that eliminates the error to form an adjusted low resolution **image** ; and...

...j) using the unadjusted **image** pixel value as part of the adjusted low resolution **image** component if an error does not exist

...Title Terms: **IMAGE** ;

19/3,K/6 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010262577 \*\*Image available\*\*

WPI Acc No: 1995-163832/199522

XRPX Acc No: N95-128520

Watermark **addition and removal for digital image storage and retrieval - stores low and high resolution images , with retrieval of high resolution image using correct encryption key**

Patent Assignee: EASTMAN KODAK CO (EAST )

Inventor: AXMAN M S; BARADAR A R; MELNYCHUCK P W; RABBANI M

Number of Countries: 003 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 651554	A1	19950503	EP 94420293	A	19941025	199522 B
JP 7212712	A	19950811	JP 94258564	A	19941024	199541

Priority Applications (No Type Date): US 93146371 A 19931029

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 651554 A1 E 12 H04N-001/21

Designated States (Regional): DE GB

JP 7212712 A 11 H04N-005/92

Watermark addition and removal for digital image storage and retrieval...

...stores low and high resolution images , with retrieval of high resolution image using correct encryption key

...Abstract (Basic): The image processing system includes the use of an encrypted digital watermark . The system uses a base image that is combined with a watermark (22) and stored on an optical disk in an encrypted (26) form. From this base image , a number of hierarchial images such as base/4 and base/16 are formed along with their residuals. Each level may be encoded before storage on disk. Non-residual sub-sampled images at base/4 and base/16 may also be stored...

...his passwords and generate each higher level from a lower level. To remove the digital watermark , a specific encryption key is required  
...

...ADVANTAGE - Allows for distribution of hierarchial images and removal of watermark by encryption key...

Title Terms: WATERMARK ;

?

File 2:INSPEC 1969-2004/Oct W4  
(c) 2004 Institution of Electrical Engineers  
File 6:NTIS 1964-2004/Oct W4  
(c) 2004 NTIS, Intl Cpyrght All Rights Res  
File 8:Ei Compendex(R) 1970-2004/Oct W4  
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(c) 2004 Inst for Sci Info  
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(c) 2004 ProQuest Info&Learning  
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(c) 2004 BLDSC all rts. reserv.  
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(c)2004 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2004/Jun W1  
(c) 2004 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Sep  
(c) 2004 The HW Wilson Co.  
File 144:Pascal 1973-2004/Oct W4  
(c) 2004 INIST/CNRS  
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
(c) 2003 EBSCO Pub.  
File 239:Mathsci 1940-2004/Dec  
(c) 2004 American Mathematical Society  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning  
File 483:Newspaper Abs Daily 1986-2004/Oct 30  
(c) 2004 ProQuest Info&Learning  
File 248:PIRA 1975-2004/Oct W3  
(c) 2004 Pira International

Set	Items	Description
S1	15561	WATERMARK? OR WATER()MARK?
S2	22095	(DIGIT? OR ELECTRONIC?) (3N) (MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER? OR MA- SK?)
S3	1602	STEGANOGRAPH?
S4	487487	(HIGH? OR MORE) (3N) RESOLUTION?
S5	3667722	IMAGE? OR GRAPHIC? OR PICTURE? OR PHOTO OR PHOTOGRAPH?
S6	14767	(DETECT? OR LOCAT? OR DETERMIN? OR SPECIF? OR RECOGN?) AND (S1 OR S2 OR S3)
S7	30077	(PUCHASE? OR BUY?) AND S5
S8	28	S6 AND S7
S9	12	S8 AND PY=2001:2004
S10	16	S8 NOT S9
S11	12	RD S10 (unique items)
S12	48452	S4 AND (DISPLAY? OR VIEW? OR SEE OR SHOW?) AND S5
S13	67	S12 AND S6
S14	67	S13 NOT S8
S15	23	S14 AND PY=2001:2004
S16	44	S14 NOT S15
S17	41	RD S16 (unique items)
S18	5635	S4 (5N) (DISPLAY? OR VIEW? OR SEE OR SHOW?) (3N) S5
S19	1	S18(S) S6
S20	0	S19 NOT (S8 OR S14)
S21	5472	S6 NOT S2
S22	210	S21 AND (DISPLAY? OR VIEW? OR SEE OR SHOW?) (3N) S5

S23	0	S17 NOT S2
S24	0	S22 AND S4
S25	37	S4(S)S5 AND S1
S26	9	S25 AND (DISPLAY? OR VIEW? OR SEE OR SHOW?)
S27	1	S26 NOT PY=2001:2004
S28	1	S27 NOT (S8 OR S13)
S29	8708	(S1 OR S3) AND S5
S30	46	S29 AND S4
S31	11	S30 AND (DISPLAY? OR VIEW? OR SEE OR SHOW?)
S32	7	S31 NOT (S27 OR S8 OR S13)
S33	1	S32 NOT PY=2001:2004
S34	0	(DETECT? OR LOCAT? OR DETERMIN? OR SPECIF? OR RECOGN?) (3N)- (S1 OR S3) (S)S4(5N) (DISPLAY? OR VIEW? OR SEE OR SHOW?)
S35	3	(DETECT? OR LOCAT? OR DETERMIN? OR SPECIF? OR RECOGN?) AND (S1 OR S3)AND S4 AND (DISPLAY? OR VIEW? OR SEE OR SHOW?)
S36	0	S35 NOT (S31 OR S27 OR S8 OR S13)

11/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6651110 INSPEC Abstract Number: B2000-08-6135C-153, C2000-08-5260B-333

**Title: Simple collusion-secure fingerprinting schemes for images**

Author(s): Domingo-Ferrer, J.; Herrera-Joancomarti, J.

Author Affiliation: Dept. of Comput. Eng. & Math., Univ. Rovira i Virgili, Catalonia, Spain

Conference Title: Proceedings International Conference on Information Technology: Coding and Computing (Cat. No.PR00540) p.128-32

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 2000 Country of Publication: USA xvi+528 pp.

ISBN: 0 7695 0540 6 Material Identity Number: XX-2000-01050

U.S. Copyright Clearance Center Code: 0 7695 0540 6/2000/\$10.00

Conference Title: Proceedings International Conference on Information Technology: Coding and Computing. ITCC 2000

Conference Sponsor: IEEE Comput. Soc

Conference Date: 27-29 March 2000 Conference Location: Las Vegas, NV, USA

Language: English

Subfile: B C

Copyright 2000, IEE

**Title: Simple collusion-secure fingerprinting schemes for images**

Abstract: This paper describes a robust **watermarking** algorithm and a collusion-secure fingerprinting scheme based on it. **Watermarking** robustness is obtained by using the JPEG algorithm to decide mark **location** and magnitude; the proposed algorithm supports multiple marking. The properties of dual binary Hamming codes are exploited to obtain a fingerprinting scheme secure against collusion of two **buyers**. The fingerprinting construction proposed here is simpler than previous collusion-secure proposals.

...Descriptors: **image** coding

...Identifiers: robust **watermarking** algorithm...

...mark **location** ; ...

... **image** coding

11/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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6540483 INSPEC Abstract Number: B2000-05-6135C-008, C2000-05-5260B-026

**Title: Fault resilient and compression tolerant digital signature for image authentication**

Author(s): Der-Chyuan Lou; Jiang-Lung Liu

Author Affiliation: Dept. of Electr. Eng., Chung Cheng Inst. of Technol., Taoyuan, Taiwan

Journal: IEEE Transactions on Consumer Electronics vol.46, no.1 p. 31-9

Publisher: IEEE,

Publication Date: Feb. 2000 Country of Publication: USA

CODEN: ITCEDA ISSN: 0098-3063

SICI: 0098-3063(200002)46:1L:31:FRCT;1-Q

Material Identity Number: I273-2000-001

U.S. Copyright Clearance Center Code: 0098-3063/2000/\$10.00

Language: English

Subfile: B C  
Copyright 2000, IEE

**Title: Fault resilient and compression tolerant digital signature for image authentication**

**Abstract:** Many **watermarking** schemes have been proposed to protect the authority of the **image** producer. These schemes can help the **image** producer to assert the ownership when their **images** are illegal reproduced. A **buyer** may want to make sure that the received commodity is from the legal sender and...

... In this situation, digital signature schemes can meet these requirements. In this sender-receiver protocol, **images** are always compressed before transmission. So compression tolerant **image** -features have to be designed to replace the hash functions in conventional digital signature schemes...

... method can not only verify the authenticity and the integrity of commodities, but also can **locate** the illegal modifications. Furthermore, the proposed method can provide the capability of recovery if **images** are tampered.

...Descriptors: **image** coding...

... **image** recognition ;  
Identifiers: **image** authentication...

... **watermarking** schemes

11/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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6504307 INSPEC Abstract Number: B2000-03-2570A-062, C2000-03-7410D-209

**Title: Effective iterative techniques for fingerprinting design IP [VLSI CAD]**

**Author(s):** Caldwell, A.E.; Hyun-Jin Choi; Kahng, A.B.; Mantik, S.; Potkonjak, M.; Gang Qu; Wong, J.L.

**Author Affiliation:** Dept. of Comput. Sci., California Univ., Los Angeles, CA, USA

**Conference Title:** Proceedings 1999 Design Automation Conference (Cat. No. 99CH36361) p.843-8

**Publisher:** IEEE, Piscataway, NJ, USA

**Publication Date:** 1999 **Country of Publication:** USA xxxii+1003 pp.

**ISBN:** 1 58113 092 9 **Material Identity Number:** XX-1999-01527

**U.S. Copyright Clearance Center Code:** 1 58113 092 9/99/O006..\$5.00

**Conference Title:** Proceedings 1999 Design Automation Conference

**Conference Sponsor:** ACM/SIGDA; IEEE Circuits & Syst. SoC.; EDA Consortium

**Conference Date:** 21-25 June 1999 **Conference Location:** New Orleans, LA, USA

**Language:** English

**Subfile:** B C

**Copyright** 2000, IEE

**Abstract:** While previous **watermarking** -based approaches to intellectual property protection (IPP) have asymmetrically emphasized the IP provider's rights...

...of IPP is to ensure the rights of both the IP provider and the IP **buyer**. Symmetric fingerprinting schemes have been widely and effectively used to achieve this goal; however, their application domain has been restricted

only to static artifacts, such as **image** and audio. In this paper, we propose the first generic symmetric fingerprinting technique which can...

...generates a uniquely fingerprinted new solution. We use this approach as the basis for developing **specific** fingerprinting techniques for four important problems in VLSI CAD: partitioning, graph coloring, satisfiability, and standard...

11/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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6246806 INSPEC Abstract Number: A1999-12-8170G-005, B1999-06-0590-046

**Title: Recent achievements and perspectives of holographic non-destructive testing**

Author(s): Trolinger, J.D.; Millerd, J.; Weber, D.; Rosenthal, D.

Author Affiliation: MetroLaser, Irvine, CA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)  
vol.3486 p.2-18

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1998 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1998)3486L:2:RAPH;1-N

Material Identity Number: C574-1998-290

U.S. Copyright Clearance Center Code: 0277-786X/98/\$10.00

Conference Title: International Conference on Optical Holography and its Applications

Conference Sponsor: SPIE: Minstr. Sci. & Technol.; Nat. Acad. Sci

Conference Date: 24-25 June 1997 Conference Location: Kiev, Ukraine

Language: English

Subfile: A B

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...Abstract: come largely from the consolidation of advances in recording materials and methods, ruggedizing procedures, and **image** processing. Successful applications to the large scale are many, but they still largely require expertise...

... and require specialists to conduct operations and most of the instruments are relatively expensive to **buy** and operate. The potential is here to remedy this situation with future advances and integration...

...Descriptors: **electronic** speckle **pattern** interferometry

...Identifiers: corrosion **detection**

11/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5727722

**Title: It's in the cards [security card technologies]**

Author(s): Balcomb, C.

Author Affiliation: Databac Group, Kingston upon Thames, UK

Journal: Security Management vol.41, no.10 p.67-71

Publisher: ASIS,

Publication Date: Oct. 1997 Country of Publication: USA

CODEN: SECME6 ISSN: 0145-9406

SICI: 0145-9406(199710)41:10L:67:CSCT;1-4

Material Identity Number: K675-97010

Language: English  
Subfile: D  
Copyright 1997, IEE

...Abstract: that authorized personnel will use for entry. Security managers are discovering that without additional features, **photo** ID cards cannot ensure true access control. Fortunately, manufacturers have attempted to keep pace with...

... and his or her access rights. The technologies incorporated on these cards include magnetic stripe, **watermark**, Wiegand, proximity, and bar code. However, not every card fits every situation. The challenge for security managers is to **determine** which technology or combination of features best suits their particular workplace.

...Descriptors: **buyer** 's guides

...Identifiers: **watermark** ;

11/3,K/6 (Item 1 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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05541015 E.I. No: EIP00045146228

Title: **Fault resilient and compression tolerant digital signature for image authentication**

Author: Lou, Der-Chyuan; Liu, Jiang-Lung

Corporate Source: Chung Cheng Inst of Technology, Taoyuan, Taiwan

Source: IEEE Transactions on Consumer Electronics v 46 n 1 Feb 2000. p 31-39

Publication Year: 2000

CODEN: ITCEDA ISSN: 0098-3063

Language: English

Title: **Fault resilient and compression tolerant digital signature for image authentication**

Abstract: Many **watermarking** schemes have been proposed to protect the authority of the **image** producer. These schemes can help the **image** producer to assert the ownership when their **images** are illegal reproduced. A **buyer** may want to make sure that the received commodity is from the legal sender and...

...In this situation, digital signature schemes can meet these requirements. In this sender-receiver protocol, **images** are always compressed before transmission. So compression tolerant **image** -features have to be designed to replace the hash functions in conventional digital signature schemes...

...method can not only verify the authenticity and the integrity of commodities, but also can **locate** the illegal modifications. Furthermore, the proposed method can provide the capability of recovery if **images** are tampered. (Author abstract) 13 Refs.

Descriptors: Electronic document identification systems; Fault tolerant computer systems; **Image** compression; Requirements engineering; Network protocols; Cryptography; **Image** reconstruction

Identifiers: Fault resilient digital signature; Compression tolerant digital signature; **Image** authentication

11/3,K/7 (Item 2 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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05306625 E.I. No: EIP99064703698

**Title:** Buyer -seller watermarking protocol based on amplitude modulation and the El Gamal public key crypto system

Author: Memon, Nasir; Wong, Ping Wah

Corporate Source: Polytechnic Univ, Brooklyn, NY, USA

Conference Title: Proceedings of the 1999 Security and Watermarking of Multimedia Contents

Conference Location: San Jose, CA, USA Conference Date: 19990125-19990127

E.I. Conference No.: 55126

Source: Proceedings of SPIE - The International Society for Optical Engineering v 3657 Jan 25-27 1999. p 289-294

Publication Year: 1999

CODEN: PSISDG ISSN: 0277-786X

Language: English

**Title:** Buyer -seller watermarking protocol based on amplitude modulation and the El Gamal public key crypto system

**Abstract:** Digital **watermarks** have recently been proposed for the purposes of copy protection and copy deterrence for multimedia content. In copy deterrence, a content owner (seller) inserts a unique **watermark** into a copy of the content before it is sold to a **buyer**. If the **buyer** resells unauthorized copies of the **watermarked** content, then these copies can be traced to the unlawful reseller (original **buyer**) using a **watermark detection** algorithm. One problem with such an approach is that the original **buyer** whose **watermark** has been found on unauthorized copies can claim that the unauthorized copy was created or...

...by a security breach) by the original seller. In this paper we propose an interactive **buyer** -seller protocol for invisible **watermarking** in which the seller does not get to know the exact **watermarked** copy that the **buyer** receives. Hence the seller cannot create copies of the original content containing the **buyer** 's **watermark**. In cases where the seller finds an unauthorized copy, the seller can identify the **buyer** from a **watermark** in the unauthorized copy, and furthermore the seller can prove this fact to a third party using a dispute resolution protocol. This prevents the **buyer** from claiming that an unauthorized copy may have originated from the seller. (Author abstract) 10...

**Descriptors:** Image coding; Amplitude modulation; Cryptography; Network protocols; Security of data; Multimedia systems; Algorithms; Digital signal processing

**Identifiers:** Buyer seller watermarking protocol; Digital watermarking ; El Gamal cryptosystem

11/3,K/8 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00501461 98IA07-005

**Would you like images with that software? -- Adding imaging to a business application is as easy as ordering wine with your meal. (Maybe easier, depending on the wine list.)...**

Lunt, Penny

Imaging Magazine , July 1, 1998 , v7 n7 p35-41, 6 Page(s)

ISSN: 1063-4320

Company Name: AccuSoft; ByteQuest; Feith Systems and Software; FileNet; Whetstone

Product Name: NetVue 2; ByteQuest; Quick Integrator; **Watermark** ;  
Open **Image**

Would you like images with that software? -- Adding imaging to a business application is as easy as ordering wine...

Product Name: NetVue 2; ByteQuest; Quick Integrator; **Watermark** ;  
Open **Image**

Presents a **buyers** ' guide to **image** enabling software solutions. Explains that **image** enablers ``snap'' imaging features into existing software, and points out that this gives users the ability to access **images** from within business applications. Notes that there are **image** -enablers available for Windows, DOS, and mainframe programs. Features products from five manufacturers: NetVue 2...

... ON (613); Quick Integrator (\$300, per user) from Feith's of Port Washington, PA (215); **Watermark** (\$10,000, base) from FileNet of Costa Mesa, CA (714); and Open **Image** (\$1,495, per concurrent user) from Whetstone of Orem, UT (801). Includes two sidebars and...

Descriptors: **Image** Processing; **Image** Management; Integrated Software; Business; Document Management System; Optical Character Recognition

Identifiers: NetVue 2; ByteQuest; Quick Integrator; **Watermark** ;  
Open **Image** ; AccuSoft; ByteQuest; Feith Systems and Software; FileNet ; Whetstone

11/3,K/9 (Item 2 from file: 233)  
DIALOG(R)File 233:Internet & Personal Comp. Abs.  
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00409354 96IA01-001

Imaging and e-mail--courting the mainstream -- Want to **image** -enable your e-mail? There are a ton of products that do it. But three offerings will create the mass audience needed

Kirkley, John

Imaging Magazine , January 1, 1996 , v5 n1 p10-15, 4 Page(s)

ISSN: 1063-4320

Company Name: Lotus Development; **Watermark** Software; **ImageView** ;  
Wang Laboratories; Diamond Head Software

Product Name: Lotus Notes: Document Imaging; Enterprise

Imaging and e-mail--courting the mainstream -- Want to **image** -enable your e-mail? There are a ton of products that do it. But three...

Company Name: Lotus Development; **Watermark** Software; **ImageView** ;  
Wang Laboratories; Diamond Head Software

Presents a **buyers** ' guide to **image** -enabled e-mail products. Features capsule descriptions of five products from five companies. Products described...

...to directly enter paper-based information into Notes-based applications; Enterprise (\$390 per seat) from **Watermark** Software (617), which integrates paper and fax information with standard corporate software; a Notes add-in (\$NA) from **ImageView** (716), which facilitates **locating** , managing, and retrieving compound documents from a Notes desktop; an **image** viewer (\$NA) from Wang (508), which allows creating **images** directly from paper documents; and a custom control (\$NA) from Diamond Head Software (214), which allows **ImageBASIC** applications to embed **image** data into any OLE container application. Includes four screen displays and a drawing. (dpm)

Descriptors: Electronic Mail; Vendor Guide; **Image** Processing;

Document Management System; Software Tools; Object Linking and Embedding  
Identifiers: Lotus Notes: Document Imaging; Enterprise; Lotus  
Development; **Watermark** Software; **ImageView** ; Wang Laboratories;  
Diamond Head Software

11/3,K/10 (Item 3 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00384154 95BY05-021

**Document image managers -- Although standards are in flux and product categories are blurred, one of these eight packages may be just right for electronically ...**

Seachrist, David

BYTE , May 1, 1995 , v20 n5 p143-152, 6 Page(s)

ISSN: 0360-5280

Company Name: **Watermark** Software; Caere; Westbrook Technologies

Product Name: **Watermark** Professional Edition; PageKeeper; FileMagic  
Plus Professional

**Document image managers -- Although standards are in flux and product categories are blurred, one of these eight...**

Company Name: **Watermark** Software; Caere; Westbrook Technologies

Product Name: **Watermark** Professional Edition; PageKeeper; FileMagic  
Plus Professional

Presents a **buyer** 's guide to document **image** management (DIM) programs  
for IBM PC compatibles with Windows. Examines eight DIM packages from eight  
...

... and price; also summarizes the strengths and limitations of each.  
Features a table comparing 31 **specifications** of these programs in the  
categories of scanning, OCR, document indexing, document **image** editing,  
retrieval, and work flow. Discusses these packages in terms of usability,  
ease of use, scanning capabilities, OCR, indexing, search and retrieve,  
**image** manipulation, document distribution, and ability to link to other  
applications. Says that **Watermark** Professional Edition 1.0 (\$295) from  
**Watermark** Software (617) is a good introduction to DIM; and PageKeeper  
1.1 (\$595) from Caere...

Descriptors: Document Management System; **Image** Management; Vendor  
Guide; Optical Character **Recognition** ; Indexing; Window Software;  
**Image** Processing

Identifiers: **Watermark** Professional Edition; PageKeeper; FileMagic  
Plus Professional; **Watermark** Software; Caere; Westbrook Technologies

11/3,K/11 (Item 1 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2004 Pira International. All rts. reserv.

00513007 Pira Acc. Num.: 20113925

**Title:** Live Picture buys into Digimarc's on-the-fly watermarking

Authors: Anon

Source: Seybold Rep. Internet Publ. vol. 2, no. 10, June 1998, p. 29

Publication Year: 1998

Document Type: Journal Article

Language: English

**Title:** Live Picture buys into Digimarc's on-the-fly watermarking

Abstract: A brief description is given of an announcement by Digimarc and

Live **Picture** that they will work together to produce a system for digitally **watermarking** digital **images** on the fly. Digimarc's patented **watermarking** technology will be used with Live **Picture**'s FlashPix **image** servers to create a server side system that can be used to identify, track and manage **images**. The **images** will have transaction **specific** **watermarks** and the new service is aimed at online publishers, World Wide Web based **image** vendors and Internet storefronts. Three methods of digital **watermarking** will be supported: dynamic **watermarking**; batch **watermarking**; and dynamic, visible, resolution **specific** **watermarking**. Details of the three **watermarking** methods are given and the features that can be incorporated in a digital **watermark** are described. (Short article)

...Company Names: Live **Picture**

Descriptors: DIGITAL **IMAGE** ; ...

...DIGITAL **WATERMARK** ; ...

... **IMAGE** MANAGEMENT...

... **WATERMARK** ;

11/3,K/12 (Item 2 from file: 248)

DIALOG(R)File 248:PIRA

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00429658 Pira Acc. Num.: 20042548

**Title: A SPECIFIER 'S GUIDE TO DESIGNER PAPERS**

Authors: Anon

Source: Pap. Eur. vol. 7, no. 8, Nov. 1995, 28pp (K, P, S)

ISSN: 0955-7806

Publication Year: 1995

Document Type: Journal Article

Language: English

**Title: A SPECIFIER 'S GUIDE TO DESIGNER PAPERS**

Abstract: The guide is presented in 4 sections, the first of which covers letterhead and **watermarked** papers. The second covers textured, embossed and coloured papers and boards, whilst the third looks...

...Descriptors: **BUYERS** GUIDE...

... **GRAPHIC** PAPER...

... **WATERMARK**

?

28/3,K/1 (Item 1 from file: 233)  
DIALOG(R) File 233:Internet & Personal Comp. Abs.  
(c) 2003 EBSCO Pub. All rts. reserv.

00540314 99IA07-008

Color images make business sense -- Obstacles that used to stand in the way of color imaging are going away. Businesses are finding that color images can cut costs by...

Wood, David

Imaging & Document Solutions , July 1, 1999 , v8 n7 p55-61, 6 Page(s)

ISSN: 1063-4320

Discusses the benefits of scanning color images . Lists five business reasons to switch to scanning in color (courtesy of Imaging Business Machines...

... AL): it kills the need to rescan documents, saving five dollars per page; a color image is an exact reproduction of the original, including photographs or watermarks ; user can resolve a better bitonal image from a raw color image ; it is easier for data entry people to see all the data; and a 100 dpi color image is about the same size as a 200 dpi bitonal image , yet more readable. Notes that combined with the rapid reduction in cost/MB of mass storage, several advances have created corporate computing infrastructures that are capable of supporting color images in high volume. Adds that users expect to see color in their higher resolution , larger displays . Includes a table (p58-59) comparing mid- and high-volume scanners from seven companies. Includes two screen displays , one photo , and a product source guide. (KMH)

Descriptors: Color Graphics; Photography; Mass Storage;  
Infrastructure; Large Screen Display ; Scanner; Database Management  
?

33/3,K/1 (Item 1 from file: 144)  
DIALOG(R) File 144:Pascal  
(c) 2004 INIST/CNRS. All rts. reserv.

13825636 PASCAL No.: 99-0001095

**Multiresolution watermarking for digital images**  
**Multirate systems, filter banks, wavelets, and applications**

HSU C T; WU J L

FLIEGE Norbert J, ed; KIKUCHI Hisa, ed; NGUYEN Truong Q, ed; VAIDYANATHAN P P, ed

Communication and Multimedia Laboratory, Department of Computer Science and Information Engineering, National Taiwan University, Taipei, Taiwan; Department of Computer Science and Information Engineering, National Taiwan University, Taipei, 106, Taiwan

Mannheim University, Germany; Niigata University, Niigata, Japan; Boston University, Boston, MA 02215, United States; California Institute of Technology, Pasadena, CA 91125, United States

Journal: IEEE transactions on circuits and systems. 2, Analog and digital signal processing, 1998, 45 (8) 1097-1101

Language: English

Copyright (c) 1999 INIST-CNRS. All rights reserved.

**Multiresolution watermarking for digital images**

In this paper, a multiresolution-based technique for embedding digital "watermarks" into **images** is proposed. The **watermarking** technique has been proposed as a method by hiding secret information into the **images** so as to discourage unauthorized copying or attesting the origin of the **images**. In our method, we take advantage of multiresolution signal decomposition. Both the **watermark** and the host **image** are composed of multiresolution representations with different structures and then the decomposed **watermarks** of different resolution are embedded into the corresponding resolution of the decomposed **images**. In case of **image** quality degradation, the low-resolution rendition of the **watermark** will still be preserved within the corresponding low-resolution components of the **image**. The experimental results **show** that the proposed **watermarking** technique results in an almost invisible difference between the **watermarked image** and the original **image**, and is robust to common **image** processing operations and JPEG lossy compression.

English Descriptors: **Image** processing; Digital **image**; Multiresolution analysis; Signal compression; Wavelet transformation; Information extraction; Successive approximation; **High resolution**; **Watermark**

French Descriptors: Traitement **image**; **Image** numerique; Analyse multiresolution; Compression signal; Transformation ondelette; Extraction information; Approximation successive; Haute resolution; JPEG; Filigrane

Spanish Descriptors: Procesamiento **imagen**; **Imagen** numerica; Analisis multiresolucion; Compresion senal; Transformacion ondita; Extraction informacion; Aproximacion sucesiva; Alta resolucion

?

File 348:EUROPEAN PATENTS 1978-2004/Oct W04

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20041028,UT=20041021

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Set	Items	Description
S1	3882	WATERMARK? OR WATER()MARK?
S2	12051	(DIGIT? OR ELECTRONIC?) (3N) (MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER? OR MAS- K?)
S3	296	STEGANOGRAPH?
S4	51242	(HIGH? OR MORE) (3N)RESOLUTION?
S5	590610	IMAGE? OR GRAPHIC? OR PICTURE? OR PHOTO OR PHOTOGRAPH?
S6	2210	(DETECT? OR LOCAT? OR DETERMIN? OR SPECIF? OR RECOGN?) (3N)- (S1 OR S2 OR S3)
S7	182	(PUCHASE? OR BUY?) (3N)S5
S8	1	S6(10N)S7
S9	21	(S1 OR S3) (10N)S5(7N)S4
S10	4	S9(10N) (DISPLAY? OR VIEW? OR SEE OR SHOW?)
S11	4	S10 NOT S8
S12	17	S9 NOT (S8 OR S10)
S13	6	S12 NOT AD=20000925:20041102/PR

8/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01091359 \*\*Image available\*\*

**METHOD AND APPARATUS FOR INSERTING AND EXTRACTING WATERMARK  
PROCEDE ET APPAREIL D'INSERTION ET D'EXTRACTION DE FILIGRANE**

Patent Applicant/Assignee:

SEALTRONIC TECHNOLOGY INC, Sunkiss B1. 2ndFl. 628-14 Yeoksam 2-dong,  
Gangnam-gu, 135-082 Seoul, KR, KR (Residence), KR (Nationality), (For  
all designated states except: US)

Patent Applicant/Inventor:

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KIM Hyun-Tae, 19-107, Hanshin 1cha APT, Banpo 2-dong, Seocho-gu, 137-042  
Seoul, KR, KR (Residence), KR (Nationality), (Designated only for: US)

KIM Jeong-Hyun, 238-117, Bulgwang 1-dong, Eunpyeong-gu, 122-041 Seoul, KR  
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CHOI Chang-Ryoul, 361-1, Dangsang-dong, Yeongdeungpo-gu, 150-040 Seoul, KR  
, KR (Residence), KR (Nationality), (Designated only for: US)

JEONG Je-Chang, 12-1102, Sunkyung APT., Daechi-dong, Gangnam-gu, 135-280  
Seoul, KR, KR (Residence), KR (Nationality), (Designated only for: US)

Legal Representative:

LEE Kyeong-Ran (agent), 502 BYC Bldg., 648-1 Yeoksam 1-dong, Gangnam-gu,  
135-081 Seoul, KR,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200414079 A1 20040212 (WO 0414079)

Application: WO 2002KR1205 20020625 (PCT/WO KR02001205)

Priority Application: WO 2002KR1205 20020625

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: Korean

Fulltext Word Count: 5993

Fulltext Availability:

Detailed Description

Detailed Description

... owner can settle a dispute by embedding the copyrighter's  
imperceptible waten-nark and then **detecting** the embedded **watermark** .

Also, when a **buyer** illegally circulates this **image** in a market, this  
buyer who is illegally

1

circulating this image can be discovered...

?

11/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00747628

Method and apparatus for reducing quantization artifacts in a hierarchical image storage and retrieval system

Verfahren und Vorrichtung zur Verminderung von Quartisierungsstorungen in einem hierarchischen Bildspeicher- und Wiederauffindungssystem

Procede et dispositif pour reduire les artefacts de quartification dans un systeme hierarchique d'archivage et de recouvrement d'images

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York 14650-2201, (US), (Proprietor designated states: all)

INVENTOR:

Rabbani, Majid, c/o Eastman Kodak Company, Patent Legal Staff, 343 State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Buff, Michel et al (14411), KODAK INDUSTRIE Departement Brevets - CRT Zone Industrielle - B.P. 21, 71102 Chalon sur Saone Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 705025 A2 960403 (Basic)  
EP 705025 A3 961204  
EP 705025 B1 000329

APPLICATION (CC, No, Date): EP 95420266 950925;

PRIORITY (CC, No, Date): US 315781 940930

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04N-001/60; H04N-001/41; H04N-007/26

ABSTRACT WORD COUNT: 124

NOTE:

Figure number on first page: 12

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200013	709
CLAIMS B	(German)	200013	614
CLAIMS B	(French)	200013	786
SPEC B	(English)	200013	5550
Total word count - document A			0
Total word count - document B			7659
Total word count - documents A + B			7659

...SPECIFICATION the remaining pixels in the BASE image.

Figure 5, hereafter referred to as the 4BASE **image**, shows an image that consists of a 9x9 array of pixels corresponding to the **high resolution** rendition of Figure 3. Referring to Box 24 in Figure 1, the **watermarked** BASE **image** in Figure 4 is interpolated to create a prediction for the 4BASE image. The interpolation...

11/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00680422

Method and apparatus for the addition and removal of digital watermarks in a hierarchical image storage and retrieval system.

Verfahren und Vorrichtung zur Addition und Entfernung der Wasserzeichen in einem hierarchischen Bildspeicherungs- und Bildwiedergewinnungssystem.

Methode et dispositif pour l'addition et l'enlevement des filigranes

digitales dans un systeme d'enregistrement et d'extraction d'images hierarchiques.

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York 14650-2201, (US), (applicant designated states: DE;GB)

INVENTOR:

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Axman, Michael Stuart, Eastman Kodak Company, Patent Legal Staff, 343 State Street, Rochester, New York 14650-2201, (US)  
Baradar, Ali R., Eastman Kodak Company, Patent Legal Staff, 343 State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Boulard, Denis et al (73581), Kodak-Pathe Departement Brevets CRT-Zone Industrielle, F-71102 Chalon-sur-Saone Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 651554 A1 950503 (Basic)

APPLICATION (CC, No, Date): EP 94420293 941025;

PRIORITY (CC, No, Date): US 146371 931029

DESIGNATED STATES: DE; GB

INTERNATIONAL PATENT CLASS: H04N-001/21; G06F-001/00;

ABSTRACT WORD COUNT: 138

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	562
SPEC A	(English)	EPAB95	3846
Total word count - document A			4408
Total word count - document B			0
Total word count - documents A + B			4408

...CLAIMS residual image;

means for reconstructing high resolution images by accessing and combining a lower resolution **image** with a residual **image** ;

means for **displaying** of the at least one encrypted residual **image** with the **watermark** ; and

means for controllably removing the **watermark** code to permit an uncompromised use of the **high resolution digital image** .

7. A recording medium having stored thereon a plurality of digital images with each of...

11/3,K/3 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00935392 \*\*Image available\*\*

ARCHIVING AND SHARING OF MULTIMEDIA CONTENT

ARCHIVAGE ET PARTAGE DE CONTENU MULTIMEDIA

Patent Applicant/Assignee:

HEWLETT-PACKARD COMPANY, 3000 Hanover Street, Palo Alto, CA 94304-1112, US, US (Residence), US (Nationality)

Inventor(s):

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SHELBY Kathy, 3600 NW Thrush, Corvallis, OR 97330, US,  
CRIPE Brian E, 945 NW Westwood Place, Corvallis, OR 97330, US,

VAN ZEE Pieter J, 1149 NW Alder Creek Drive, Corvallis, OR 97330, US,  
BEGED-DOV Gabe, 3090 NW Angelica Drive, Corvallis, OR 97330, US,  
Legal Representative:

JENSKI Raymond A (agent), Intellectual Property Administration, 3404 E.  
Harmony Road, m/s 35, Fort Collins, CO 80525-9599, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200269632 A1 20020906 (WO 0269632)  
Application: WO 2002US4913 20020214 (PCT/WO US0204913)  
Priority Application: US 2001792791 20010223

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TT TZ UA UG UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8778

Fulltext Availability:

Detailed Description

Detailed Description

... an automatic picture formatter, to the printer for a high resolution  
print of the second **image** even though the user is **viewing** the lower  
NTEG-1 resolution **image** on the monitor. The **high resolution** file  
name may also be **steganographically** encoded into the entire **image**  
for later recovery by the computer processor.

It is interesting to pose several scenarios of...

**11/3,K/4 (Item 2 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00781930 \*\*Image available\*\*

**AUTHENTICATION SYSTEM AND METHOD**

**SYSTEME ET PROCEDE D'AUTHENTIFICATION**

Patent Applicant/Assignee:

PHYSICAL OPTICS CORPORATION, 20600 Gramercy Place, Building 100,  
Torrance, CA 90501-1821, US, US (Residence), US (Nationality)

Inventor(s):

KOSTRZEWSKI Andrew A, 9816 Grouse Court, Garden Grove, CA 92641, US,  
SAVANT Gajendra D, 26640 Basswood Street, Rancho Palos Verdes, CA 90275,  
US,

JANNSON Tomasz P, 4629 Via El Sereno, Torrance, CA 90505, US,

JANNSON Joanna L, 4629 Via El Sereno, Torrance, CA 90505, US,

Legal Representative:

NILLES Andrew J (et al) (agent), Nilles & Nilles, S.C., Firststar Center,  
Suite 2000, 777 East Wisconsin Avenue, Milwaukee, WI 53202, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200115064 A1 20010301 (WO 0115064)  
Application: WO 2000US21862 20000808 (PCT/WO US0021862)  
Priority Application: US 99377257 19990819

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 27331

Fulltext Availability:

Detailed Description

Detailed Description

... that can be used include: keys, digital keys, digital information, bar codes, labels, geometrical patterns, **high - resolution images** , **high - resolution** markings, **watermarks** and others.

The mask 88' **shown** in FIG. 23 has been simplified for ease of explanation.

Preferably, the resultant phase convolved...

?

13/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01331989

**Electronic watermark data insertion apparatus and electronic watermark data detection apparatus**

**Elektronisches Wasserzeichendateneinfugungsgerat und elektronisches Wasserzeichendatenauffindungsgerat**

**Appareil electronique d'insertion de donnees de filigrane et appareil electronique de detection de donnees de filigrane**

PATENT ASSIGNEE:

NEC CORPORATION, (236690), 7-1, Shiba 5-chome, Minato-ku, Tokyo, (JP),  
(Applicant designated States: all)

INVENTOR:

Tanaka, Nobuyuki, NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Betten & Resch (101031), Postfach 10 02 51, 80076 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1136946 A2 010926 (Basic)  
EP 1136946 A3 030910

APPLICATION (CC, No, Date): EP 2001107208 010322;

PRIORITY (CC, No, Date): JP 200082211 000323

DESIGNATED STATES: DE; FR; GB; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06T-001/00

ABSTRACT WORD COUNT: 197

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200139	622
SPEC A	(English)	200139	12061
Total word count - document A			12683
Total word count - document B			0
Total word count - documents A + B			12683

...SPECIFICATION structure.

Now, attention will be directed to a human's visual characteristic where a dynamic **image** or a moving **picture** has a **higher** sensible **resolution** than a static **image** or a still **picture** . It is necessary to weaken electronic **watermark** data to be embedded in order not to degrade image quality of a composite image...

13/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01313551

**Image processing system**

**Bildverarbeitungsgerat**

**Appareil de traitement d'image**

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

Suzuki, Takashi c/o Canon Kabushiki Kaisha, 30-2, 3-chome Shimomaruko

Ohta-ku, Tokyo, (JP)  
Ohara, Eiji c/o Canon Kabushiki Kaisha, 30-2, 3-chome Shimomaruko Ohta-ku  
, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. 2-5 Warwick  
Court, High Holborn, London WC1R 5DH, (GB)

PATENT (CC, No, Kind, Date): EP 1122939 A2 010808 (Basic)  
EP 1122939 A3 030827

APPLICATION (CC, No, Date): EP 2001300633 010124;

PRIORITY (CC, No, Date): JP 200022285 000131; JP 200022962 000131

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/00

ABSTRACT WORD COUNT: 109

NOTE:

Figure number on first page: 14

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200132	1604
SPEC A	(English)	200132	13354
Total word count - document A			14958
Total word count - document B			0
Total word count - documents A + B			14958

...SPECIFICATION are thinned (e.g., data in which one pixel is thinned every two pixels), an **image** specified by the position information is extracted from **high - resolution image** data before pixel thinning, thereby detecting the digital **watermark** .

First, a low-resolution **image** is prepared on the SDRAM 106 by, e.g., thinning pixels from an original image...

...The pattern specified with the position and size determined in step S1407 is extracted from **high - resolution image** data before pixel thinning (step S1409). The digital **watermark** contained in the digital **image** data is extracted by convolution which uses the pattern (step S1411).

As the size of...

...may be executed for the specific frequency after computing the Fourier transform of the digital **image** data.

In addition, the position and size of the **watermark** can also be detected using a **high - resolution image** before pixel thinning.

(Forgery Prevention Determination Flow)

The forgery prevention determination processing flow in copying...

13/3,K/3 (Item 3 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00985928

Image processing apparatus, method and recording medium therefor  
Bildverarbeitungsvorrichtung und -verfahren und Aufzeichnungsmedium dafur  
Appareil et procede de traitement d'image et support d'enregistrement  
PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,  
Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

Matsumoto, Kentaro, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,  
Ohta-ku, Tokyo, (JP)  
Uchio, Hirokazu, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,  
Ohta-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. High Holborn  
2-5 Warwick Court, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 892545 A2 990120 (Basic)  
EP 892545 A3 000412

APPLICATION (CC, No, Date): EP 98305700 980716;

PRIORITY (CC, No, Date): JP 97192364 970717; JP 97192365 970717; JP  
97250504 970916

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/00; H04N-001/32

ABSTRACT WORD COUNT: 71

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9903	1756
SPEC A	(English)	9903	6848
Total word count - document A			8604
Total word count - document B			0
Total word count - documents A + B			8604

...SPECIFICATION made different in different layers, even by employing a  
same inserting method.

For example, the **watermark** inserted in the **image** data of a **high  
resolution** level is so formed, in the mutual calculation with the **image**  
data of the object image, that the pattern data of the watermark  
information assume relatively...

...for the image of the resolution level 0, and the inserting method II for  
the **images** of other levels. Such method allows to promptly insert the  
**watermark** with a relatively simple algorithm for the **image** of a **high  
resolution** level with a large data amount.

(Variation 3)

In the foregoing embodiments, the **watermark** is inserted in all the  
tiles according to the memory format of the image data...

13/3,K/4 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00887600 \*\*Image available\*\*

**DIGITAL IMAGE WATERMARKING APPARATUS AND METHOD**

**APPAREIL ET PROCEDE DE MARQUAGE NUMERIQUE**

Patent Applicant/Assignee:

MARKANY INC, Ssanglim Bldg. 10Fl., 151-11 Ssanglim-dong, Chung-gu,  
100-400 Seoul, KR, KR (Residence), KR (Nationality), (For all  
designated states except: US)

Patent Applicant/Inventor:

CHOI Jong-Uk, Seong-won Apt. 2-dong #1301, Uoo-eui-dong 1, Dobong-gu,  
142-090 Seoul, KR, KR (Residence), KR (Nationality), (Designated only)

for: US)

LEE Jung-Su, Chungwha villa B03 ho, 315-55 Ssangmun 3 dong, Dobong-gu,  
132-033 Seoul, KR, KR (Residence), KR (Nationality), (Designated only  
for: US)

Legal Representative:

KOREANA PATENT FIRM (agent), Dong-Kyong Bldg., 824-19 Yoksam-dong,  
Kangnam-ku, 135-080 Seoul, KR,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200221846 A1 20020314 (WO 0221846)

Application: WO 2001KR1524 20010910 (PCT/WO KR0101524)

Priority Application: KR 200053755 20000909

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS KE KG KP KZ LC LK LR LS LT LU LV  
MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 6659

Fulltext Availability:

Detailed Description

Detailed Description

... to provide a digital image

watermarking apparatus and method wherein the quality of the digital  
**image** is not largely deteriorated and it is very strong in conserving  
the **watermark** when the digital **image** with **watermark** embedded is  
printed having **high resolution** or the **image** is altered due to  
dithering or halftone, etc. since a **watermark** is  
embedded using a frequency domain characteristic,  
It is still another object of the present...

13/3,K/5 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00858136

JET INK COMPOSITION FOR PRINTING WATERMARKS

COMPOSITIONS D'ENCRE PAR JET PERMETTANT D'IMPRIMER DES FILIGRANES

Patent Applicant/Assignee:

MARCONI CORPORATION PLC, One Bruton Street, London W1J 6AQ, GB, GB  
(Residence), GB (Nationality)

Inventor(s):

PETERSON Christopher D, 1614 Monroe Street, 3E, Evanston, IL 60202, US,  
ZHU Linfang, 338 Meadow Green Drive, Naperville, IL 60565, US,

Legal Representative:

MCGOWAN Nigel George (agent), Marconi Intellectual Property, Marrable  
House, The Vineyards, Great Baddow, Chelmsford, Essex CM2 7DS, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200190261 A2-A3 20011129 (WO 0190261)

Application: WO 2001GB2325 20010525 (PCT/WO GB0102325)

Priority Application: US 2000579519 20000526

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4342

Fulltext Availability:

Detailed Description

Detailed Description

... changed readily.

Binary array type continuous ink jet printers are especially suited for printing **watermarks** due to their **high** speed, **high resolution**, and **graphic** capability. **Watermark images** can be created with a suitable software and electronically stored in a computer. The computer...

13/3,K/6 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00535741 \*\*Image available\*\*

**IMPROVEMENTS IN SECURITY DOCUMENTS AND SUBSTRATES THEREFOR**

**AMELIORATIONS APPORTEES A DES DOCUMENTS DE SECURITE ET SUBSTRATS PREVUS A  
CET EFFET**

Patent Applicant/Assignee:

DE LA RUE INTERNATIONAL LIMITED,

AMES Christopher John,

Inventor(s):

AMES Christopher John,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9967093 A1 19991229

Application: WO 99GB1987 19990624 (PCT/WO GB9901987)

Priority Application: GB 9813783 19980625

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE  
GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN  
YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE  
CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN  
GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 3845

Fulltext Availability:

Detailed Description

Detailed Description

... large areas of the

metallised layer 14 may also be used to provide a

pseudo **watermark** effect with very **high resolution** ,  
similar to that achieved by intaglio printing.

Such selective demetallisation provides a high  
quality **image** with good resolution.

For the demetallisation process, any suitable  
methods may be used, such as...

?

File 9:Business & Industry(R) Jul/1994-2004/Oct 29  
(c) 2004 The Gale Group  
File 15:ABI/Inform(R) 1971-2004/Nov 02  
(c) 2004 ProQuest Info&Learning  
File 16:Gale Group PROMT(R) 1990-2004/Nov 02  
(c) 2004 The Gale Group  
File 20:Dialog Global Reporter 1997-2004/Nov 02  
(c) 2004 The Dialog Corp.  
File 47:Gale Group Magazine DB(TM) 1959-2004/Nov 02  
(c) 2004 The Gale group  
File 75:TGG Management Contents(R) 86-2004/Oct W4  
(c) 2004 The Gale Group  
File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Nov 02  
(c) 2004 The Gale Group  
File 88:Gale Group Business A.R.T.S. 1976-2004/Oct 29  
(c) 2004 The Gale Group  
File 98:General Sci Abs/Full-Text 1984-2004/Sep  
(c) 2004 The HW Wilson Co.  
File 112:UBM Industry News 1998-2004/Jan 27  
(c) 2004 United Business Media  
File 141:Readers Guide 1983-2004/Sep  
(c) 2004 The HW Wilson Co  
File 148:Gale Group Trade & Industry DB 1976-2004/Oct 15  
(c) 2004 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 275:Gale Group Computer DB(TM) 1983-2004/Nov 01  
(c) 2004 The Gale Group  
File 264:DIALOG Defense Newsletters 1989-2004/Nov 01  
(c) 2004 The Dialog Corp.  
File 484:Periodical Abs Plustext 1986-2004/Oct W4  
(c) 2004 ProQuest  
File 553:Wilson Bus. Abs. FullText 1982-2004/Sep  
(c) 2004 The HW Wilson Co  
File 570:Gale Group MARS(R) 1984-2004/Nov 01  
(c) 2004 The Gale Group  
File 608:KR/T Bus.News. 1992-2004/Nov 02  
(c) 2004 Knight Ridder/Tribune Bus News  
File 620:EIU:Viewswire 2004/Nov 01  
(c) 2004 Economist Intelligence Unit  
File 613:PR Newswire 1999-2004/Oct 28  
(c) 2004 PR Newswire Association Inc  
File 621:Gale Group New Prod. Annou.(R) 1985-2004/Nov 02  
(c) 2004 The Gale Group  
File 623:Business Week 1985-2004/Nov 01  
(c) 2004 The McGraw-Hill Companies Inc  
File 624:McGraw-Hill Publications 1985-2004/Nov 01  
(c) 2004 McGraw-Hill Co. Inc  
File 634:San Jose Mercury Jun 1985-2004/Nov 01  
(c) 2004 San Jose Mercury News  
File 635:Business Dateline(R) 1985-2004/Oct 30  
(c) 2004 ProQuest Info&Learning  
File 636:Gale Group Newsletter DB(TM) 1987-2004/Nov 02  
(c) 2004 The Gale Group  
File 647:CMP Computer Fulltext 1988-2004/Oct W4  
(c) 2004 CMP Media, LLC  
File 696:DIALOG Telecom. Newsletters 1995-2004/Nov 01  
(c) 2004 The Dialog Corp.  
File 674:Computer News Fulltext 1989-2004/Sep W1  
(c) 2004 IDG Communications  
File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 587:Jane's Defense&Aerospace 2004/Aug W5  
(c) 2004 Jane's Information Group

Set	Items	Description
S1	53472	WATERMARK? OR WATER()MARK?
S2	31715	(DIGIT? OR ELECTRONIC?) (3N) (MARKER? OR MARKING? OR SYMBOL? OR STENCIL? OR PATTERN? OR FINGERPRINT? OR IDENTIFIER? OR MAS- K?)
S3	924	STEGANOGRAPH?
S4	340391	(HIGH? OR MORE) (3N) RESOLUTION?
S5	10046195	IMAGE? OR GRAPHIC? OR PICTURE? OR PHOTO OR PHOTOGRAPH?
S6	2689	(DETECT? OR LOCAT? OR DETERMIN? OR SPECIF? OR RECOGN?) (3N) - (S1 OR S2 OR S3)
S7	34315	(PUCHASE? OR BUY?) (3N) S5
S8	0	S6(10N) S7
S9	3	S6(S) S7
S10	2	RD S9 (unique items)
S11	159	(S1 OR S3) (S) S4(S) S5
S12	111	S11 NOT PY=2001:2004
S13	69	RD S12 (unique items)
S14	24	S13(S) (DISPLAY? OR VIEW? OR SEE OR SHOW?)
S15	24	S14 NOT S9
S16	1355	(DETECT? OR LOCAT? OR DETERMIN? OR SPECIF? OR RECOGN?) (3N) - (S1 OR S3)
S17	0	S16(10N) (DISPLAY? OR VIEW? OR SEE OR SHOW?) (3N) S4
S18	8	S16(10N) S4
S19	8	S18 NOT (S14 OR S9)
S20	2	RD S19 (unique items)

10/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

06963294 Supplier Number: 58342562 (USE FORMAT 7 FOR FULLTEXT)  
**Manufacturers and Suppliers. (Alphabetical list of companies)**  
Lasers & Optronics, vl8, n11, pS8  
Nov, 1999  
Language: English Record Type: Fulltext  
Document Type: Tabloid; Academic Trade  
Word Count: 71777

... products. Services include precision molding, annealing, slumping, sawing, grinding, generating, edging, cutting, and machining. Rebuild, **buy**, and sell used optical equipment.

Advanced Imaging Concepts Inc., 301 N. Harrison St., Suite 266...  
Hirschberg;

4 Employees; 2 Engineers; Established: 1959  
CAL-AV LABS, Inc. manufactures standard and custom **electronics** and systems. Our customers are the major labs and users from government, industry, and universities...

10/3,K/2 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2004 The Dialog Corp. All rts. reserv.

15059454 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Robertson Stephens Daily Growth Stock Update on EXFO NEWP ZIGO AETH LQID**  
**ASKJ DMRC EWBX KPA INTM MBG MSLV PDYN PNK PGNX VIAN AEOS EAT BUCA HET**  
**HOTT IWOV MRK PFE**  
PR NEWSWIRE  
February 08, 2001  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1448

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Digimarc watermarks embedded in various files, and (4) announcing a product for online licensing of **images**. We reiterate our **Buy** rating on Digimarc." EarthWeb Inc. (Nasdaq: EWBX) \$6.13 Buy EBITDA 2001E: (\$0.42), down...  
?

15/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01896735 05-47727

**Innovation Japan**

Anonymous

Dealerscope Consumer Electronics Marketplace v4ln8 PP: 8 Aug 1999

ISSN: 1087-1055 JRNL CODE: DEA

WORD COUNT: 736

...TEXT: Display System from Hitachi

Hitachi and its subsidiary Hitachi Information Network introduced a digital art **display** system, called KaleidoArt, which uses a 41-inch, 4:3, **high - resolution**, XGA-class plasma **display** panel to **display** digitized works of art. In addition to the 41-inch plasma **display** panel, the KaleidoArt system includes a video control unit, video software and a golden, metal or wooden art- **picture** frame. When the system begins selling in September, 10 **images** from French and Italian works of art will be available from **Image** Mall Japan. The **images** will be protected by a digital **water - mark**, and the unit's hardware will feature a copy protection hardware key system. The KaleidoArt...

15/3,K/2 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07867850 Supplier Number: 65698047 (USE FORMAT 7 FOR FULLTEXT)  
**Printers, Canon, Bubble Jet.(Canon S450 Color Bubble Jet Printer)(Hardware Review)(Evaluation)**

Patz, Joel T.

WinMag.com, pNA

Oct 2, 2000

Language: English Record Type: Fulltext

Article Type: Evaluation

Document Type: Magazine/Journal; Trade

Word Count: 742

... 720 with specialty media) and 7ppm in color (at 720 x 720 using the optional **Photo** ink). In our 20-page text document, the S450 spit out 7.64ppm in draft...

...of the next page on top of it.A 6 x 7.5 inches color **photo** took 4 minutes and 7 seconds to print using **Photo** mode and selecting "**High Resolution** Paper." When I used the **Photo** cartridge and chose Super **Photo** mode, the time inched up to 4:33. Results on Canon **photo** glossy paper were very good, though I preferred to set the driver to lighten the printed **image**.Paper handling is standard for this printer. The input tray can hold up to 100...

...applying output optimizers. You can add monochrome special effects (like Sepia tones or printing a **photo** to look like an illustration), too. Best of all, the driver will save your collective choices into a custom-named setting. I especially liked being able to **display** the driver-enabled pop-up window that **shows** the printer's progress and ink levels. It's one of those reassuring features that...

...informative (and accurate) than the printer status window built in to

Windows. You can print **watermarks** , scale the printed document up or down in one percent increments, and select 2- or...

...good printer, Canon loads the installation CD with a wide array of software, from Canon **Photo** (for **photo** editing), Textbridge Pro (for OCR tasks), PrintMaster CE, and American Greetings' CreaCard SE. The S450...

15/3,K/3 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

07800605 Supplier Number: 65161495 (USE FORMAT 7 FOR FULLTEXT)

Quality Color with Internet Access. (Quality Color with Internet Access -

Quality laser printer with many unique features) (Hardware Review) (Evaluation)

Archer, Dick

WinMag.com, pNA

July 21, 2000

Language: English Record Type: Fulltext Abstract

Article Type: Evaluation

Document Type: Magazine/Journal; Trade

Word Count: 1004

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...by-step chart guides you through the installation and there are detailed diagrams. (click to **see larger image** ) The 4650N driver provides

flexible printer controlNetwork set-up is very straight forward and basically...

...tabs that allow you to manage general information, printer port settings, sharing information, Postscript settings, **watermark** properties, **graphics** quality, font handling, device options, paper size, source & orientation, color control and media type. NEC...

...technology and printer status reports are sent back to you the same way. (click to **see larger image** ) Color control and media type selection are controlled from a separate tabPull printing uses a...

...file types, including MS Word, Excel or PowerPoint files, PDF files, Internet Web pages and **graphics** . In pull printing, your document is sent to the pull server, which renders the output...

...other traffic on the network during the testing. Our standard 3-page mixed text-and- **graphics** document printed at 4.42 pages per minute, slightly above the 4ppm rating, but our...

...10 seconds to start printing after being submitted. I printed a 24-page text-and- **graphics** PDF file using Adobe Acrobat at 4.44 pages per minute. A **high - resolution** , 6MB **graphics image** only took 26.8 seconds to send to the printer, but required 11 minutes to...

...processed before the paper actually started to move! For comparison, I printed the same 6MB **image** on an Epson 3000 professional **photo** -quality printer. The 4650N's print was slightly darker, and some detail was lost, especially in shadowed areas, but it did a reasonably good job considering the complexity of the **image** . During use, the 4650N made a "clunking" sound as the toner modules are manipulated. This...

15/3,K/4 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

05887933 Supplier Number: 53079635 (USE FORMAT 7 FOR FULLTEXT)

**Tony Stone Images Launches Breakthrough Website.**

Business Wire, p1322

Oct 13, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 790

... visitor who enters a username and password can perform a search and download low resolution **images** with a visible as well as an invisible digital **watermark** . After registering and completing a billing profile, customers can **view** pricing information, pay for and download **images** , including **high resolution** , 48 meg- **images** , without visible **watermarks**

"Tony Stone Images is bringing stock imagery into the next millennium," says Jonathan Klein, Chief...

15/3,K/5 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

05705773 Supplier Number: 50161542 (USE FORMAT 7 FOR FULLTEXT)

**Live Picture Zoom Images Populate Major Retail, Entertainment, Real Estate, and Travel Web Sites**

PR Newswire, p713LAM052

July 13, 1998

Language: English Record Type: Fulltext

Article Type: Article

Document Type: Newswire; Trade

Word Count: 1378

... light microscopes for tissue examination.

Workbook

Leading publisher of creative directories and provider of stock **photo images** for the advertising and **graphic** design communities, Workbook is using the Live **Picture Image** Server to **display high - resolution images** for its online customers. **Images** can then be examined in detail and distributed at any desired resolution. Because the Live **Picture Image** Server supports digital **watermarking** , Workbook can track copyright usage and offer increased security to its clients.

In related news...

15/3,K/6 (Item 5 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

04554411 Supplier Number: 46694069 (USE FORMAT 7 FOR FULLTEXT)

**ADOBE ROLLS OUT WEB-ENABLED PAGEMAKER 6.5 AND PHOTOSHOP 4.0 RELEASES FOR APPLE MACINTOSH AND WINDOWS95**

Computergram International, n2994, pN/A

Sept 9, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade  
Word Count: 690

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Adobe Systems Inc, Mountain View , California has announced the latest versions of its PageMaker desktop publishing software and PhotoShop **photo** design and production tool, for both Apple Computer Inc's Macintosh and Windows95 and Windows...

...years within its customer base, namely: a move to high-end desktop publishing that demands **more** colour and **higher resolution graphics** , the rise of the Internet and intranets and the increasing use of **Photo** CDs, all of which Adobe is positive that PageMaker 6.5 and PhotoShop 4.0 will address. In addition, Adobe sees the areas of **photography** and Web design as growing markets for PhotoShop in particular. Both tools have undergone what...

...of editing steps as a list, which can either be used repeatedly on the same **image** file or on different **images** . Copyright protection for **photographers** and digital artists is provided through a technology known as digital **watermarking** . Using **Imagemarc** software from Portland, Oregon-based Digimarc Corp, PhotoShop embeds a digital **watermark** into an **image** , which is not visible to the human eye, but remains readable even after the **image** has been edited, printed or re-scanned.

15/3,K/7 (Item 6 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

04514248 Supplier Number: 46631125 (USE FORMAT 7 FOR FULLTEXT)

**IRIS Previews New Art Paper: Arches for IRIS**

News Release, pN/A

August 15, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 595

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Companies Jointly Develop Premium Paper Optimized for Giclee Prints  
Bedford, MA, August 15, 1996 -- IRIS **Graphics** Inc., the Bedford, MA-based manufacturer of **high - resolution** color printers, unveiled today a new fine-printmaking paper from Arches the 504-year-old...

...paper manufacturer. The first product in a planned multi-product line that will carry the **watermark** , Arches for IRIS, this 140-lb., cold press, bright white, pH-neutral, all-cotton paper...

...and inks. Arches will manufacture the new paper in cut sheets to accommodate the full **image** area of four/RIS models: IRIS 3047 (34 x 46.8 in.), IRIS 3024 (24...

...kind of uncontrolled wicking that can limit the color range, brightness, and resolution of an **image** printed with water-based inks on untreated art papers. The new treated Arches for IRIS paper produces a broad color gamut, which gives **images** a brilliant, deeply saturated appearance, and reproduces exceptionally fine detail, especially in highlight and shadow...

...interact. Also, tests on the new paper conducted in the IRIS ink-and-media laboratories **show** an evenness of ink absorption throughout the entire **image**, which significantly reduces--or eliminates--the mottling effect commonly seen in inkjet prints on untreated...

...for artists...a dream come true" Commented Jeffrey Leonard, president of Bishop Street Press and **ImageStation** (Kihei, Hawaii), "For the last three years we've printed IRIS Giclees on untreated Arches cold press and other fine watercolor papers. But there were many **images** that simply could not be reproduced satisfactorily on these highly absorbent media. And all **images** required esoteric tables and extensive preparation. The new Arches for IRIS, which we are beta...

...fine surface. Yet the print characteristics are equivalent to the coated papers developed for the **graphics** industry. Exceptional color gamut. Superb detail throughout the tonal range. For artists, this kind of...

...galleries, museums, and collectors--has created a demand for longer-lasting prints that bear the **image** quality people have come to expect from IRIS. Our response has been to develop the...

...solution of interlocking, mutually reinforcing components. We're confident that independent testing now underway will **show** this system solution to have effects on **image** quality and **image** durability greater than the sum of its parts." Lorusso noted that Wilhelm Imaging Research, Inc. (Grinnell, IA) is currently performing **image** -stability testing on IRIS art prints made with the Arches for IRIS paper, Longevity inks...

15/3,K/8 (Item 7 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

04440765 Supplier Number: 46517598 (USE FORMAT 7 FOR FULLTEXT)

**ALLIED GRAPHICS TECHNOLOGIES LAUNCHES WEB-SITE PORTFOLIO PACKAGE FOR PHOTOGRAPHERS AND OTHER CREATIVE PROFESSIONALS**

PR Newswire, p0701NYM130

July 1, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1313

... offer advanced features including a professional design, a brief audio message, a Macromedia Shockwave "slide **show**" of the portfolio **images**, an automatic e-mail response form, and a **watermark** on all **high - resolution images** to prevent their unauthorized use.

Newcomers to the World Wide Web often worry about maintenance...

...contents of the portfolio.

By clicking on a thumbnail image on the contact sheet, the **viewer** automatically moves to a page representing a **high - resolution** version of the **image**, as well as captioning and copyright information. To prevent the **high - resolution image** from being downloaded and used without permission, it is **watermarked**.

The site also includes a page with information about the artist, which could include elements...

15/3,K/9 (Item 1 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2004 The Dialog Corp. All rts. reserv.

08634990 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Informative Graphics Corp. Introduces Brava! -- Web Collaboration For Engineering Documents**

BUSINESS WIRE

December 09, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 460

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... jMYRIAD technology. It includes significant new functionality directed at web-based collaboration, including:

-- Enhancements for **viewing** and printing of native CAD and **image** formats -- Performance improvements (data compression) for lower bandwidth connections -- High resolution printing to A and B size devices -- Metadata-based print and **watermark** banners -- Ability to interactively browse and load drawings & document files from the shared server -- Bean...

15/3,K/10 (Item 2 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2004 The Dialog Corp. All rts. reserv.

04376330 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**HITACHI: Digital video watermarking technologies united**

M2 PRESSWIRE

February 17, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 698

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... develop a powerful method for automatically creating and embedding robust watermarks that are invisible to **viewers**. At about the same time, Hitachi, Pioneer and Sony focused their extensive expertise in consumer...

...future high-definition television standards, digital-cinema distribution and other computer-based high- resolution digital- **image** applications.

The Watermark Review Panel (WaRP) was formed at the December 1998 meeting of the...

15/3,K/11 (Item 3 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2004 The Dialog Corp. All rts. reserv.

02805890

**Sony Introduces Digital Hybrid Recorder for High Performance Recording and Archiving Applications**

BUSINESS WIRE

September 14, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 525

... more than 500 lines of resolution. "The HSR-1 digital hybrid recorder produces high resolution **images** required by surveillance professionals in such demanding applications as banking, corporate headquarters, airports and shopping...

... Modes Four record modes offer end-users the ability to select their ideal balance between **picture** quality and record time. Super mode enables the recording of 972,000 **images** in 11.25 days; High mode allows the recording of 1,944,000 **images** in 22.5 days; Middle mode provides 3,888,000 **images** to be recorded in 45 days; and Low mode records 7,776,000 **images** in 90 days. For added flexibility, the HSR-1 recorder features five preset recording modes...

... automatically switches to a higher refresh rate and higher record quality to capture the clearest **images**. Additionally, a unique **watermark** system allows the recorder to identify an altered **image**. The HSR-1 recorder, measuring 14"(w) by 5"(h) by 16.25"(d), is...

... government, medical and education markets. Sony offers a wide array of products and systems for **image** capture, production and **display**. Sony also provides specialized equipment and systems for data recording, duplication, electronic **photography** /publishing, video conferencing, high definition video, interactive and security applications. In the fiscal year that...

15/3,K/12 (Item 1 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2004 The Gale group. All rts. reserv.

04261091 SUPPLIER NUMBER: 16906250 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**One-stop shopping for stock photos. (Media Photographers' Copyright**

**Agency) (Brief Article)**

Martin, James A.

Macworld, v12, n6, p117(1)

June, 1995

DOCUMENT TYPE: Brief Article

ISSN: 0741-8647

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 268 LINE COUNT: 00024

MPCA In **View** is said to be the first stock- **photo** agency set up exclusively for licensing and distributing electronic photos. Through its online service, MPCA In **View** will make available thousands of **Photo** CD-format **images** representing the works of its 525 member **photographers**. Subscribers will use their modems to dial the service's toll-free number; perform keyword searches; download thumbnails or **watermarked** preview files in TIFF; and place an order based on usage restrictions--there's no ...

...negotiate with a separate stock agency, as is often the case with other online stock- **photo** services. After placing your order, you will have to reconnect by dialing a different phone number to download a **Photo** CD **image** -pack file, which contains both **high** - and low- **resolution** versions of a **photo**.

MPCA In View isn't expected to go online until spring of 1995. In the ...

15/3,K/13 (Item 1 from file: 88)

DIALOG(R)File 88:Gale Group Business A.R.T.S.

(c) 2004 The Gale Group. All rts. reserv.

05016381 SUPPLIER NUMBER: 53682950

**EVENT horizon. (science and culture)**

ABERLIN, MARY BETH

The Sciences, 39, 1, 7(1)

Jan, 1999

ISSN: 0036-861X

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 956

LINE COUNT: 00077

... means, Octavo Editions CD-ROMs may be your ticket to pleasure. Each CD-ROM features **high - resolution** digital **images** of every page of the corresponding book, with enough detail to **show** bindings, **watermarks** and print peculiarities at high magnification. You can search the text electronically, of course, and...

15/3,K/14 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2004 The Gale Group. All rts. reserv.

08791990 SUPPLIER NUMBER: 18466104 (USE FORMAT 7 OR 9 FOR FULL TEXT)

/C O R R E C T I O N -- APPLIED GRAPHICS TECHNOLOGIES/(Correction Notice)

PR Newswire, p708NYM001D

July 8, 1996

DOCUMENT TYPE: Correction Notice

LANGUAGE: English

RECORD TYPE:

Fulltext

WORD COUNT: 1457

LINE COUNT: 00123

... offer advanced features including a professional design, a brief audio message, a Macromedia Shockwave "slide **show**" of the portfolio images, an automatic e-mail response form, and a watermark on all **high - resolution images** to prevent their unauthorized use.

Newcomers to the World Wide Web often worry about maintenance...

...or 36 images quickly references the contents of the portfolio.

By clicking on a thumbnail **image** on the contact sheet, the **viewer** automatically moves to a page representing a high-resolution version of the **image**, as well as captioning and copyright information. To prevent the high-resolution **image** from being downloaded and used without permission, it is **watermarked**.

The site also includes a page with information about the artist, which could include elements...

15/3,K/15 (Item 1 from file: 553)

DIALOG(R)File 553:Wilson Bus. Abs. FullText

(c) 2004 The HW Wilson Co. All rts. reserv.

03583614 H.W. WILSON RECORD NUMBER: BWBA97083614

**Database protects integrity of on-line product information.**

AUGMENTED TITLE: 1-800-DATABASE's Brand Image Databack

Reda, Susan

Stores (Stores) v. 79 (Sept. 1997) p. 58+

LANGUAGE: English

...ABSTRACT: and a digital imaging company is working to protect the integrity of product data and **images**, which is of vital importance in on-line retailing. Virtual retailers and manufacturers require accurate data and **images** to promote and manage products for electronic marketing and virtual inventory. However, collecting accurate product information and **images**, keeping them updated, and protecting these **images** from piracy is next to impossible. In order to identify, track, and regulate digital products...

...services for branded consumer products in the retail industry. The company's year-old Brand **Image** Databank centralizes all the data at one source and provides **high resolution images**. Each **image** is coded with a three-level security device known as an electronic **watermark**, which identifies it as a manufacturer's authorized product **image** and prevents the **image** from being **viewed** on-line if it is used in an unauthorized manner.

**15/3,K/16 (Item 1 from file: 613)**

DIALOG(R) File 613:PR Newswire

(c) 2004 PR Newswire Association Inc. All rts. reserv.

00257490 20000202SFW012 (USE FORMAT 7 FOR FULLTEXT)

**Lizardtech Brings High-Quality Images to Internet Consumers**

PR Newswire

Wednesday, February 2, 2000 08:03 EST

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 768

...storage requirements, while providing a richer, high-quality image experience for their site visitors."

MrSID **Image** Server 2.2 key features:

- Serves reproduction-quality **images** in a flash
- Quickly distributes multiresolution **images**
- Prints **high - resolution images** directly from standard Web browsers
- Supports CMYK, RGB and grayscale **images**
- Allows single-source **image** management
- Uses visible **watermarking** for **image** security
- Requires no plug-ins to **view images** in standard Web browsers
- Available for Windows NT(R), Linux and Solaris(TM) Web servers...

**15/3,K/17 (Item 2 from file: 613)**

DIALOG(R) File 613:PR Newswire

(c) 2004 PR Newswire Association Inc. All rts. reserv.

00257484 20000202SFW011 (USE FORMAT 7 FOR FULLTEXT)

**Consumers Enjoy Lizardtech Technology Through Web-Enabled Photography**

PR Newswire

Wednesday, February 2, 2000 08:03 EST

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 947

...view the entire map or zoom in for greater detail at [www.loc.gov](http://www.loc.gov).

MrSID **Image** Server 2.2 key features:

- Serves reproduction-quality **images** in a flash
- Quickly distributes multiresolution **images**
- Prints **high - resolution images** directly from standard Web browsers
- Supports CMYK, RGB and grayscale **images**
- Allows single-source **image** management
- Uses visible **watermarking** for **image** security
- Requires no plug-ins to **view images** in standard Web browsers

-- Available for Windows NT(R), Linux and Solaris(TM) Web servers...

15/3,K/18 (Item 1 from file: 635)

DIALOG(R) File 635:Business Dateline(R)

(c) 2004 ProQuest Info&Learning. All rts. reserv.

0810750 97-71021

**New technology boosts counterfeiting business Crimes take \$10 billion bite out of industry**

Overstreet, James

Denver Business Journal (Denver, CO, US), V48 N35 p17.c

PUBL DATE: 970509

WORD COUNT: 839

DATELINE: Denver, CO, US, Mountain

TEXT:

...are more conservative than what the Washington-based American Bankers Association says its studies have **shown** in the past. The latest data available from the ABA **shows** check fraud at banks doubled to 1.3 million cases in 1993 from 1991. Losses...

...adding to the counterfeiter's arsenal. Scanners let counterfeiters convert a check into a digital **image** that can then be altered and manipulated on a computer screen. Dollar amounts can be...

...an 80-year-old company that provides services ranging from controlled security paper to artificial **watermarks** that prevent copying. "We're just trying to keep up with the Joneses," said Scott...

...second phase, making it more difficult for crooks to counterfeit documents. Security features include artificial **watermarks**, markings that are printed in white ink and can only be seen when held at...

...also provides features added after the manufacturing process, ranging from holograms and foil stamping to **high - resolution** borders, which are difficult to scan and distorted when copied. Although there are many high ...

15/3,K/19 (Item 2 from file: 635)

DIALOG(R) File 635:Business Dateline(R)

(c) 2004 ProQuest Info&Learning. All rts. reserv.

0682442 96-39660

**Apple unveils two new color inkjet printers**

Curtis, Jayme

PR Newswire (New York, NY, US) p1

PUBL DATE: 960314

WORD COUNT: 951

DATELINE: Cupertino, CA, US, Pacific

TEXT:

...affordable than ever before. The Color StyleWriter 2500 offers high-quality color and true black, **high resolution** printing for around \$380 U.S. In addition, Apple announced the availability of the StyleWriter ...

...group. "The products we announced today are proof that Apple offers the best integration of **image** capture, color matching and manipulation at the host computer, and brilliant color output to a...

...documents on a single page, 64 TrueType fonts, and capability for dropping shaded or solid "**watermarks**" onto the background of a page. Both printers support ColorSync 2.0, Apple's state...

...supports both 10Base-T and 10Base-2 EtherTalk local area networks, and offers five LED **displays** for monitoring the network connection status and easy troubleshooting. Printers supported by the adapter include...

15/3,K/20 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

03921950 Supplier Number: 50154501 (USE FORMAT 7 FOR FULLTEXT)

**-LIVE PICTURE: Leading companies announce their choice of Live Picture image servers**

M2 Presswire, pN/A

July 14, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1398

... light microscopes for tissue examination.  
Workbook Leading publisher of creative directories and provider of stock **photo images** for the advertising and **graphic** design communities, Workbook is using the Live **Picture Image** Server to **display high - resolution images** for its online customers. **Images** can then be examined in detail and distributed at any desired resolution. Because the Live **Picture Image** Server supports digital **watermarking**, Workbook can track copyright usage and offer increased security to its clients.

In related news...

15/3,K/21 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

01171139 Supplier Number: 41028609 (USE FORMAT 7 FOR FULLTEXT)

**UNTITLED ARTICLE**

Advanced Military Computing, v5, n24, pN/A

Nov 20, 1989

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 720

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...to get the message out that their Visualization Series combines parallel supercomputing with 3-D **graphics**. Their efforts to do that set a high **water mark** for slick advertising campaigns. Journalists, most of them working with only a generalist's knowledge...

...for the second phase of development for the next-generation VLSI neural network chip for **image** analysis. The chips can be used for object identification and recognition. For more call Julie...

...is a value-added reseller of Macintosh computers to the federal government....Sun Microsystems, Mountain View, Calif., had an 8% drop in net income for 1989, to \$60.1 million, but...

...David Sarnoff Research Center and Texas Instruments have learned their proposal to develop high-definition **display** computer workstations will be funded by DARPA. It will be ready in two years, and will be used by other DARPA contractors for research on **high - resolution** systems and video processing techniques....A software and hardware prototyping kit developed by IBM Space...

...Norwalk, Conn., has \$750,000 from the Naval Air Development Center, Warminster, Pa., for two **display** systems to use in future aircraft. The equipment will be versions of **graphics** workstations from Silicon **Graphics**. The system, to be installed for testing in an F-18 and a CH-53, will give pilots real-time solid color **graphics** for mission presentations....Unisys, McLean, Va., is part of a team chosen by NASA to ...

15/3,K/22 (Item 1 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01020539 CMP ACCESSION NUMBER: VAR19940515S0254

**Scanning The Office For A Profitable Image - Turn paper flow into cash  
flow with smart solutions and services**

Frank Hertz  
VARBUSINESS, 1994, n 1007, 29  
PUBLICATION DATE: 940515  
JOURNAL CODE: VAR LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Document Imaging

TEXT:

... doors and help customers deploy the technology. It's an ideal situation." A MORE COMFORTABLE **IMAGE** The barriers that inhibited VARs' entry into the document imaging market are typical of the...

...adds. "Some people were ready to buy yesterday, but the majority wanted to wait and **see** if it would stick," says Lisabeth Abrahms, vice president of marketing and sales at Advantage Computing Inc., a document imaging VAR in Houston. "Now we certainly don't **see** a lack of enthusiasm." Analysts break down imaging systems components into three parts: front-end...

...competes with TDC of Moorpark, Calif. and Eastman Kodak Co. of Rochester, N.Y. in **high - resolution**, **high**-throughput scanners. These vendors rely on VARs to match their scanners with other high-end...

...can call up any number of documents with a simple search. Most of the products **image**-enable a system or application, which allows existing components to accept and process scanned **images**. Major players in document management software include PaperClip Imaging Software Inc., Hackensack, N.J., **Watermark** Software Inc., Burlington, Mass., FileNet Corp., Costa Mesa, Calif., Keyfile Corp., Nashua, N.H., and...

...management solution. For VARs that would like to roll their own, companies such as Kofax **Image** Products, Irvine, Calif., Xionics, Peabody, Mass., and Seaport Imaging Systems, San Jose, provide **image**

processing boards and development tools to integrate the hardware and software components of an imaging system. VARs also can let their customers share their scanned **images** by providing **image** - enabled groupware. Lotus Development Corp. and Eastman Kodak teamed up to develop Lotus Notes:Document Imaging (LN:DI). With LN:DI, Lotus Notes users can share **image** files along with all their other applications. In addition, VARs must include storage as an integral part of their imaging solutions. **Images** take up lots of space, so a dedicated **image** server is almost always needed. Optical jukeboxes hold high-capacity disks and provide users with complete access to their **images** within one unit. A mechanical arm moves the called-up disk to a reader; files...strong understanding of the technology and the ability to analyze a customer's business to **see** how document imaging can best be implemented to increase productivity. As with many strategic technologies...

15/3,K/23 (Item 1 from file: 696)

DIALOG(R)File 696:DIALOG Telecom. Newsletters  
(c) 2004 The Dialog Corp. All rts. reserv.

00718798

**DVD Report and Tape Disc Business Pick The Most Influential DVD Executives**

DVD Report

March 27, 2000 VOL: 5 ISSUE: 13 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: PHILLIPS BUSINESS INFORMATION

LANGUAGE: ENGLISH

WORD COUNT: 3214

RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:

...Fidler (who would move over from Pioneer) who preached the potential of DVD at trade **shows** and events, including DVD Forum meetings. Sony was one of DVD's biggest supporters from...supervision, New Line's titles have been among the best in the business for both **image** quality and the "extras" prized by collectors. The feature-packed Austin Powers was arguably DVD...protection technical working group, where important work took place in the still-unresolved arena of **watermarking** technologies.

Mary Sauer

Senior Vice President & Co-Founder

Sonic Solutions

The authoring and premastering tools...including DVD Creator, the industry's first all-in-one DVD production system. Sauer also **shows** that women can play key roles in what's become a male-dominated business.

Richard...the Meridian

Lossless Packing compression scheme proposed by Bob Stuart of Meridian Audio,

which allows **high - resolution** multichannel sound at reduced data rates with no

compromise in fidelity to the original data...

15/3,K/24 (Item 2 from file: 696)  
DIALOG(R)File 696:DIALOG Telecom. Newsletters  
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00691819

**BERLIN WATERS MUDDY ON DVD RECORDABILITY**  
CONSUMER MULTIMEDIA REPORT  
September 20, 1999 DOCUMENT TYPE: NEWSLETTER  
PUBLISHER: WARREN PUBLISHING INC.  
LANGUAGE: ENGLISH WORD COUNT: 1501 RECORD TYPE: FULLTEXT

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TEXT:

...on existing DVD-Video  
decks.

At Philips' IFA stand, executives used engineering prototype  
to record **images** of reporters entering briefing room. To prove  
interchangeability with existing here-and-now product, reporters...

...needed for DVD-RAM discs demonstrated elsewhere at IFA by  
several suppliers including Hitachi, which **showed** camcorder that  
records up to 2 hours of video onto 3" RAM disc.  
As for...

...to  
include MPEG encoding circuitry sourced from Philips  
Semiconductors. First-generation product won't have **watermark** -  
read capability, Philips said.

Pioneer used IFA as launchpad for rewritable DVD-RW recorder  
based...2 video in standard mode said to be equivalent to S-  
VHS quality. Extended and **high - resolution** modes can record for  
one hour and 4 hours, respectively, at unspecified quality. MMVF  
is...

...although spokeswoman has indicated  
that company is studying it for future generations.

Thomson stand also **showed** company may have serious ambitions  
in marketing future MP3-based Internet music devices to follow...

...retail shelves. Range of nonworking  
prototypes, including CD portables, changers and shelf systems,  
were on **display** pairing MP3 compression with CompactFlash ports,  
some of which could be built into products destined for U.S.  
introduction as soon as Jan. Consumer Electronics **Show** .

Matsushita answered with IFA "concept prototype" **display** of  
"pocket music player" based on SD (for "Secure Digital") Memory  
Card platform developed with SanDisk and Toshiba. Also **shown** was  
notebook PC mockup with SD port. SD logo bears uncanny  
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...into range of Internet-downloadable  
Walkman music players, Sony stand at IFA had futuristic prototype  
**display** of concept possibilities. Mockups included Sports Walkman  
model with yellow earplugs, 10-module Memory Stick...France's Canal-Plus,  
transmitted by Astra

satellite TV service. ITV programs included quiz/game **shows** and auction with audience bidding. Demonstration then moved on to IBC in Amsterdam.

Feed also...on existing DVD-Video decks.

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Feed also...  
?

20/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07932776 Supplier Number: 66265449 (USE FORMAT 7 FOR FULLTEXT)  
**C-Cube Extends DVD Leadership With New Super-Integrated Chip.**  
PR Newswire, pNA  
Oct 23, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 846

... Packing (MLP) audio decode, LPCM audio decode, Copy Protection for  
Pre-recorded Media (CPPM), audio **watermark detection**, Real-time Text  
Insertion (RTI), **high - resolution** stills, and DVD-audio disk navigation.  
Robert Stuart, chairman and technical director of Meridian Audio...

20/3,K/2 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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09432722 SUPPLIER NUMBER: 19325362 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Live Picture, Inc. ships Its RealSpace Image Server; first solution for  
delivering high-quality, low-bandwidth images and photospatial  
interactivity for electronic commerce, marketing, entertainment, and  
workflow.**  
Business Wire, p4211109  
April 21, 1997  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1363 LINE COUNT: 00122

... JPEG, PNG, TIFF, or GIFF:  
-- Multi-resolution tiled image storage format for rapid access to  
**high - resolution** data without pixellation. -- Resolution- **specific**,  
embedded Digimarc **watermarks** carrying persistent copyright and authorship  
identification -- Extendible storage for adding application-specific data.  
-- Standardized color...  
?